Northwestern Steel and Wire Company

Pre-RCRA Landfill Corrective Measures Implementation Semi-Annual Progress Report

March 22, 2001 through September 22, 2001



RCRA RECURDS ROOM
Waste, Pesticides & Toxics Division
U.S. EPA—REGION 5

January 31, 2002

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1.0 INTRODUCTION

This semi-annual progress report the is the fifth progress report for the renewed RCRA Part B permit for Northwestern Steel and Wire Company (NWSW), Sterling, Illinois. This report documents the Corrective Measures Implementation (CMI) being conducted on the pre-RCRA landfill located at the NWSW facility. The report covers the period of March 22, 2001 through September 22, 2001. The CMI is being conducted in accordance with the approved CMI operation of the corrective measures selected to protect human health and the environment. The CMI work plan contains the procedures necessary to monitor the performance of the corrective measures implemented at the pre-RCRA landfill.

1.1 History of the Pre-RCRA Landfill

The landfill is located approximately 500 feet north of the Rock River (Figure 1) and covers approximately 13.5 acres and is approximately eight (8) to ten (10) feet deep. Solid waste was disposed in the pre-RCRA landfill beginning in 1974. The waste disposed in the pre-RCRA landfill consisted of slag, brick, construction debris, and two sludges generated by on-site pollution control systems. The pre-RCRA landfill was closed in 1980 and a new RCRA landfill opened to receive the two sludges only. This new landfill received a Part B permit for the disposal of these two sludges on November 4, 1987. The Part B permit was subsequently renewed for ten years. The new permit was issued on March 10, 1999 with an effective date of April 14, 1999.

One condition of the initial RCRA landfill permit required a RCRA Facility Investigation (RFI) of the pre-RCRA landfill to determine if any releases from the landfill had occurred. The RFI was conducted in phases and determined that trichloroethylene (TCE), cis 1,2-dichloroethylene (DCE), and vinyl chloride (VC) were present in the groundwater beneath and downgradient from the landfill at elevated concentrations. Based on the findings of the RFI, the United States Environmental Protection Agency (USEPA) required that NWSW conduct a Corrective Measures Study (CMS) to

determine the best corrective measure alternative to achieve an acceptable level of risk within the exposed population. The CMS consisted of three distinct tasks: 1) additional field tests, 2) a risk assessment, and 3) an evaluation of potential corrective measures and recommendation of the alternative(s) that would result in an acceptable risk to human health.

1.2 Description of the Selected CMI Remedy

The various remediation technologies were evaluated as to their potential applicability to the pre-RCRA Landfill situation. This evaluation included no action, limited action, source control, groundwater remediation, and a combination of source control and groundwater remediation. The risk assessment showed that the present situation results in an acceptable level of risk to human health and the environment. Therefore the no action and limited action alternatives are acceptable means of complying with the goals of the CMS. Both result in the protection of human health. The limited action alternative, which is incorporated in the Part B permit modification effective March 22, 1993, offers the additional benefit of on-going monitoring which will provide for the detection of changes in concentrations of the compounds of concern (TCE, DCE and VC). The renewed permit removed the testing requirement for TCE, since TCE has not been detected in any of the monitoring wells for over eight years.

2.0 CMI OPERATIONS

The corrective measure design for the pre-RCRA landfill consists of 1) a system to prevent unauthorized disturbance of the soil and fill in the pre-RCRA landfill, and 2) a system of continued groundwater monitoring until the landfill meets the cleanup objectives contained in the Part B permit. These corrective measures, which have not been altered since the last semi-annual progress report, are described below.

2.1 Prevention of Unauthorized Disturbance

Unauthorized disturbance of the soil and fill in the pre-RCRA landfill are prevented by NWSW's existing facility security system. NWSW has a facility security system in place to prevent access by unauthorized personnel to the pre-RCRA landfill. NWSW employs 4 full-time guards. One guard supervises each eight-hour shift. The guard normally conducts two inspections of the plant perimeter each shift to assure unauthorized personnel are not present. The pre-RCRA landfill area may be included in these inspections.

A security fence with no trespassing signs posted at various places along the fence surrounds the facility site occupied by NWSW. Access to the facility is gained through secured gates; therefore preventing unauthorized personnel from entering the facility. The main access gates at Avenue K and Wallace Streets are monitored for access 24 hours by guards. A gate located on the western edge of the facility, adjacent to the non-hazardous waste landfill, remains closed and locked with access available to authorized personnel only. Additional signs have been posted around the pre-RCRA landfill as needed.

In March of 2001, NWSW landfill personnel discovered that the southeast corner of the landfill cover had been disturbed with a narrow trench. Preliminary investigation indicated that the Union Pacific Railroad may have buried an electrical cable 2-3 feet deep in that area. The disturbed area runs from an electrical box north of the landfill to a control shed next to the railroad tracks south of the landfill. NWSW has not yet been able to contact the correct railroad personnel, but will continue to do so.

2.2 Groundwater Sampling Procedures

The groundwater monitoring wells around the pre-RCRA landfill are shown in Figure 2. The renewed Part B permit has identified the monitoring wells with new letter/number designations. Previous designations were MW-X and have been changed to G10X, so for example, MW-6 is now G106.

The renewed RCRA permit requires that monitoring wells G103, G104, R105, G111, G116 and G117 be sampled semi-annually in April-May and October-November, and that monitoring wells G102, G106, G108, G112, G115 and G 118 be sampled annually in April-May. Monitoring wells G103-4, R106, G111 and G116-7 delineate a Groundwater Management Zone (GMZ) at the site.

The first year of required quarterly sampling was completed with the May 10, 1994 sampling event. NWSW is presently in a semi-annual monitoring program.

On May 22, 2001 twelve monitoring wells were sampled, as is the annual requirement. The results of this sampling are being submitted with this progress report.

According to Mrs. E. Kay Ingles of the Daily Analytical Laboratory (now PDC Laboratories), the monitoring wells were sampled according to the following procedures.

Static water levels and well depth were measured in each well prior to sampling. Water levels were measured three consecutive times to the nearest 0.01 foot using a steel tape or electrical water level sensor, and recorded in the field notebook. Prior to collecting groundwater samples for chemical analysis, water standing in the well casing and filter pack was purged so that the sample would be obtained from water representative of groundwater in the aquifer. A minimum of three well casing volumes of water was removed using a bailer or an inertial pump; whichever was appropriate for the depth of the well. Purged water was monitored for pH and specific conductance. Purging was considered complete when a minimum of three well casing volumes had been purged and the pH and specific conductance parameters had stabilized. Purged groundwater was temporarily stored in dedicated plastic containers and pumped back into each monitoring well after completion of each sampling event.

Groundwater samples from each well were collected using a clean Teflon® bailer.

Groundwater samples were carefully poured from the sampling bailer into pre-cleaned,

laboratory-supplied glass VOA vials with Teflon® septum caps. The VOA vials were completely filled to eliminate air bubbles. Each groundwater sample was sealed and labeled using labels provided by the analytical laboratory. The sample identification for each sample was as follows:

- Site Identification (NWSW for Northwestern Steel and Wire)
- Monitoring Well Number (G1XX)
- Ground water sample number (GW1) increasing sequentially.

An example groundwater sample identification number is NWSW-G110-GW2, which indicates that this sample is the second collected at the Northwestern Steel and Wire site from monitoring well G110. Samples were placed on ice in a cooler for sample preservation. Water temperature, pH, Eh, and specific conductance measurements were measured and recorded in the field notebook at the time of sampling. Field measurement equipment were calibrated daily according to the manufacturer's recommendations.

As part of the quality assurance program, one duplicate groundwater sample and one field equipment blank per sampling event was collected and submitted to the laboratory for contaminant analysis. In addition, a trip blank was submitted with each sample shipment and analyzed for VOCs. Samples were presented as described above and shipped to the analytical laboratory in a timely manner. Chain-of-custody forms for the samples were included in each shipment.

Groundwater monitoring and sampling equipment was decontaminated prior to use at each monitoring well using procedures discussed in Section 9.12 of the CMI to prevent the possibility of cross-contamination between monitoring wells. Care was taken to prevent the decontaminated well purging and sampling equipment from coming into contact with the ground surface.

When samples were received at the laboratory, sample containers were inspected for integrity, proper labeling, proper preservation, and properly completed chain of custody form(s). The samples were logged in by the laboratory and a unique laboratory sample

number assigned to each sample. Laboratory sample numbers were entered into the laboratory's master logbook and used on sample laboratory sheets. Other pertinent information such as the date and time of sample receipt was also recorded. Samples were stored in secured refrigerators at the laboratory.

Groundwater samples were analyzed for VC and DCE. Detailed information on the analytical procedures such as potential interferences, precision and accuracy of the methodology, and method detection limits are identified in Test Methods for Evaluating Solid Waste, SW-846 (EPA, 1986). For each groundwater sampling episode, laboratory quality assurance/quality control (QA/QC) consisted of analyzing field blanks, field duplicates, and standard laboratory QA/QC samples. A complete laboratory analytical report from PDC Analytical Laboratories is provided as Appendix A.

2.3 Groundwater Sampling Results

During the May 22-23 sampling event, monitoring wells G102-5, R106, G108, G111-12 and G115-18 were sampled and analyzed for VC and DCE. Tables 1 and 2 summarize the results of the groundwater sampling conducted for the CMI Program.

The results presented in Table 1 show that for the twelve wells sampled on May 22-23, six show concentrations below the VC detection level; three wells (G104, G105, and G117) have lower VC concentrations than the last time these wells were sampled. The VC concentration at wells G103 and G116 increased. For this sampling event, the VC concentration in G104 was within the calibration range of the laboratory instrumentation. Consequently, no sample dilution prior to analysis was necessary as had been required once before. The VC concentration at well G116 did exceed the maximum allowable permit levels for this well. The maximum permitted level of VC for G116 is 14 ug/L, and the May 22nd result was 18 ug/L. Soon after receiving these results, NWSW resampled G116 on July 27, 2001. The results of that sampling gave <2.0 ug/L, so we believe the well has returned to compliance.

Table 2 provides the analytical results for DCE during the most recent CMI Sampling. The May 22-23 results for the 12 monitoring wells sampled shows DCE levels below detection limit in five wells, an increase in DCE concentration in four wells (G102, G103, G111 and G118), and a decrease in DCE concentration in four wells (G104, G105, G116 and G117) from previous sampling. The DCE concentration in G117 did not exceed the maximum allowable permit level of 97ug/L.

3.0 PROBLEMS ENCOUNTERED

A problem encountered during the six months that are the subject of this report for the implementation of the CMI plan was the elevated concentration of VC in well G116. The July retesting, however, showed that the VC concentration had dropped to non-detect. Since the VC concentrations are within permit limits, no further steps will be taken. A second problem encountered remains the disturbance to a small corner of the landfill by trenching for an electrical cable. The trench was made and backfilled before NWSW personnel were aware of the disturbance. NWSW personnel continue to look for reasons for the disturbance.

4.0 PERSONNEL CHANGES

On May 19 2001 NWSW announced the shutdown of operations. Over the next several weeks almost all of the employees were laid off. The project management organization remains the same as initially described in the CMI Work Plan including changes described in prior progress reports, but the chain of command in section 9.3 of the Health and Safety Plan will now replace Karrol Phillips as Site Supervisor and Site Safety Officer with David Long.

Sections 2.2 and 9.3(4) of the CMI Work Plan reference Daily Analytical Laboratories as the sampling and analyzing entity for the site. Peoria Disposal Company acquired Daily

Analytical Laboratories, and as a result the sampling and analytical work is now being done by PDC Laboratories, Inc. Many of the personnel involved remain the same, including Mr. Kurt Stepping as the Laboratory Manager.

5.0 ACTIVITIES FOR THE NEXT REPORTING PERIOD

5.1 Description of Activities

The planned activities for the next reporting period include the continued operation and maintenance of the corrective measures implementation program as described in the CMI work plan. This will include periodic landfill inspections and maintenance. The groundwater sampling program and monitoring of the performance of the corrective measures implementation will also continue on a semi-annual basis in accordance with the CMI work plan.

5.2 Schedule

A schedule for future groundwater sampling and reporting requirements is provided in Figure 3.

6.0 TRIGGERING OF CONTINGENT CORRECTIVE MEASURES

Section III (G)(1)(c) of the permit establishes maximum allowable DCE and VC concentrations in monitoring wells G103-5, G111 and G116-17. If an individual maximum concentration is exceeded, then the contingent corrective measures must be implemented. As discussed in Section 2.3, Groundwater Sampling Results, the individual triggering concentrations for VC at well G116 was exceeded. However, since subsequent sampling showed a return to lower VC values, no additional steps will be taken. There has also been evidence of unauthorized disturbance of the pre-RCRA landfill soils or fill, and NWSW will continue to investigate how and why this occurred. No contingent corrective measures have been triggered at this time.

7.0 COMMUNITY RELATIONS ACTIVITIES

The Community Relations Plan (CRP) was prepared to guide community relations activities during the implementation of corrective measures at NWSW's pre-RCRA Landfill. The purposes of the CRP are to make available to the local community, information concerning the corrective measures actions, and to facilitate communication between NWSW and the community. During this period of the CMI, no citizens or interested parties have contacted NWSW concerning the CMI operations at the pre-RCRA Landfill.

7.1 Status of the Community Relations Objectives

This section presents the status of the community relations objectives used during the implementation of the corrective measures to ensure that the community is included in the process. The following techniques were organized according to the objectives of the community relations program:

1. Objective: Provide Community with Information.

Technique: Establish Information Repository

Purpose: To provide site-specific information to the community.

Actions Taken: The information repository was established at the following

location:

Northwestern Steel and Wire Company

121 Wallace Street P.O. Box 618

Sterling, IL 61081-0618 Telephone: (815) 625-2500

2. Objective: Respond to Community Concerns and Needs that Arise During

the Corrective Measures Implementation.

Technique: Monitor Community Concerns.

Purpose: To continually assess and address community concerns throughout

the implementation of the corrective measures.

Action

Taken: NWSW has identified David E. Long, Environmental Manager, as

the contact person to whom citizens or groups can direct their written concerns and questions. NWSW has provided a telephone number for monitoring community concerns. The representative from NWSW is accessible by telephone 5 days a week, Monday through Friday, from 8:00 am to 5:00 p.m. at (815) 625-2500 ext.

2451.

3. Objective: Provide for Effective Management of the Community Relations

Program.

Technique: Management of Community Relations Program.

<u>Purpose</u>: To address community concerns that emerge during

the implementation of the corrective measures.

Action

<u>Taken</u>: No community concerns have emerged during this period of the

CMI. No comments or questions have been received during the

period covered by this progress report.

word/long/anrpt2

FIGURE 3

SCHEDULE FOR FUTURE CMI ACTIVITIES

GROUNDWATER SAMPLING

SEMI-ANNUAL, 6 WELLS

MID-NOVEMBER, 2001

CMI PROGRESS REPORT

APRIL, 2002

GROUNDWATER SAMPLING,

ANNUAL, 12 WELLS

MID-MAY, 2002

CMI PROGRESS REPORT

OCTOBER, 2002

Table 2. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

cis-1, 2 DCE Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.															as or		97	
5/13-14/99		<5	16	27	19	<5		<5			20	<5			<5	33	24	5.6
11/11/1999		T A	17	11	25			F - 42			7.4	- 3			100	65	38	
5/16-17/00		<2	5	5	19	<2		<2			15	<2			5	28	12	<2
11/14/2000			<2	6	16						60					35	15	
02/06/2001																37		
05/22-23/01		7	32	<5	13	<5		<5			73	<5	-		<5	34	7	16
07/27/2001			7711												- 2	29		
									TOTAL CO.									
		7																
	I was																	
								7										
-															-			

^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit

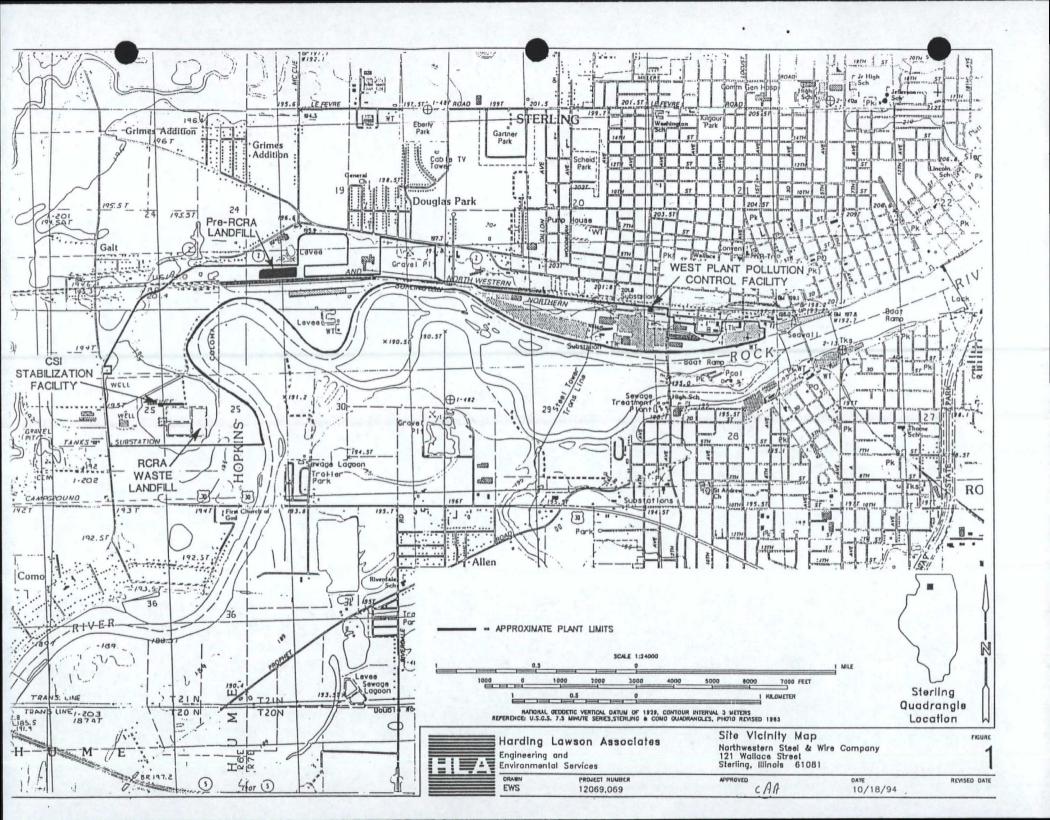
Table 1. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

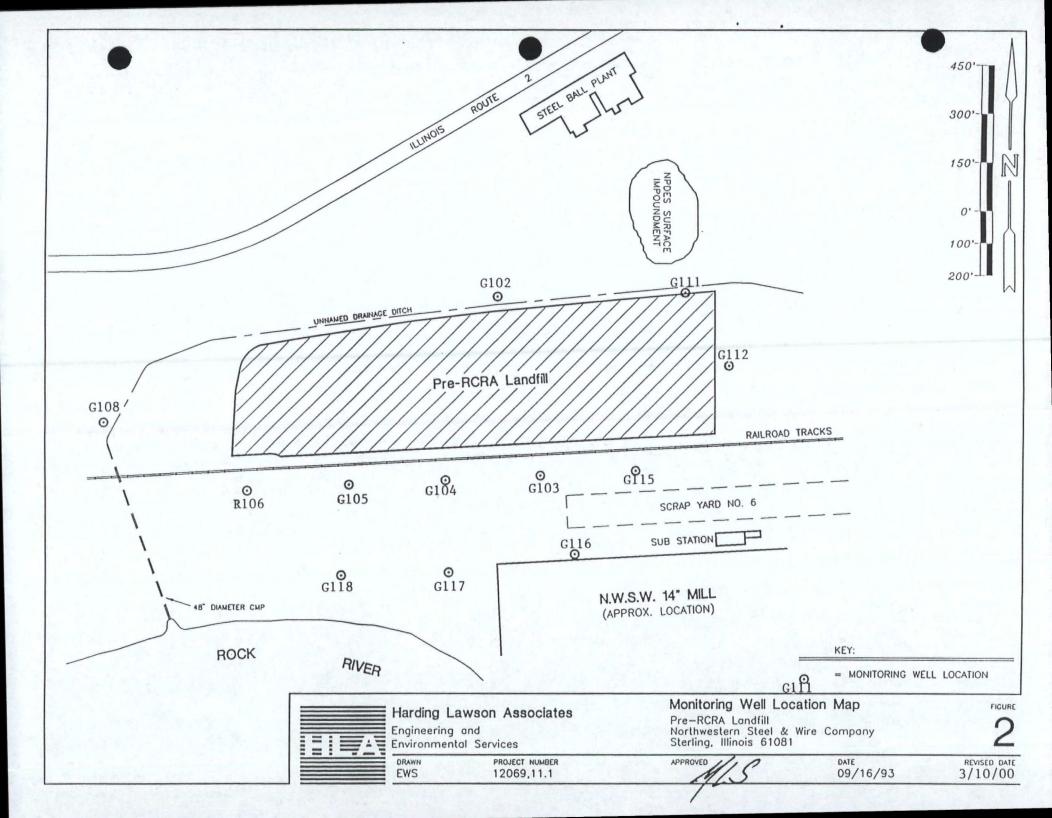
Vinyl Chloride Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.			240	277	44						8					14	151	
5/13-14/99		<2	75	200	20	<2		<2			<2	<2	12		<2	<2	78	<2
11/11/1999			140	87	13						12	- 1 - 2			100	28	89	
5/16-17/00		<5	52	36	19	<5		<5			<5	<5			<5	11	62	<5
11/14/2000			58	98	15		1				<5					17	98	
02/06/2001				etin III								A de la constant				14		
05/22-23/01		<2	160	66	14	<2	-	<2			5	<2			<2	18	76	<2
07/27/2001												· (go = s				<2		
						E-con-						- Ann 1/2						
										M = 1								
		100																
																-		
														7-				
								-97										

^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit







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Report Cover Page

Northwestern Steel & Wire Co. 121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. #: 275706

Login No. 01052940

This report includes information regarding the following described samples as received by the laboratory and is only valid for the parameters tested. This report contains 14 results page(s) not including the cover page(s).

01052940-1 NWSW GW PRE-RCRA LF MW 2 01052940-2 NWSW GW PRE-RCRA LF MW 3 01052940-3 NWSW GW PRE-RCRA LF MW 4 01052940-4 NWSW GW PRE-RCRA LF MW 5 01052940-5 NWSW GW PRE-RCRA LF MW 6 01052940-6 NWSW GW PRE-RCRA LF MW 8 01052940-7 NWSW GW PRE-RCRA LF MW 11 01052940-8 NWSW GW PRE-RCRA LF MW 12 01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 01052940-13 NWSW GW PRE-RCRA LF MW 18 01052940-14 FIELD BLANK PRE-RCRA LF FIELD BLANK	Sample No.	Client ID	Site		Locator
01052940-3 NWSW GW PRE-RCRA LF MW 4 01052940-4 NWSW GW PRE-RCRA LF MW 5 01052940-5 NWSW GW PRE-RCRA LF MW 6 01052940-6 NWSW GW PRE-RCRA LF MW 8 01052940-7 NWSW GW PRE-RCRA LF MW 11 01052940-8 NWSW GW PRE-RCRA LF MW 12 01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-1	NWSW GW	PRE-RCRA	LF	MW 2
01052940-4 NWSW GW PRE-RCRA LF MW 5 01052940-5 NWSW GW PRE-RCRA LF MW 6 01052940-6 NWSW GW PRE-RCRA LF MW 8 01052940-7 NWSW GW PRE-RCRA LF MW 11 01052940-8 NWSW GW PRE-RCRA LF MW 12 01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-2	NWSW GW	PRE-RCRA	LF	MW 3
01052940-5 NWSW GW PRE-RCRA LF MW 6 01052940-6 NWSW GW PRE-RCRA LF MW 8 01052940-7 NWSW GW PRE-RCRA LF MW 11 0102940-8 NWSW GW PRE-RCRA LF MW 12 01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-3	NWSW GW	PRE-RCRA	LF	MW 4
01052940-6 NWSW GW PRE-RCRA LF MW 8 01052940-7 NWSW GW PRE-RCRA LF MW 11 01052940-8 NWSW GW PRE-RCRA LF MW 12 01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-4	NWSW GW	PRE-RCRA	LF	MW 5
01052940-7 NWSW GW PRE-RCRA LF MW 11 01052940-8 NWSW GW PRE-RCRA LF MW 12 01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-5	NWSW GW	PRE-RCRA	LF	MW 6
0102940-8 NWSW GW PRE-RCRA LF MW 12 01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-6	NWSW GW	PRE-RCRA	LF	MW 8
01052940-9 NWSW GW PRE-RCRA LF MW 15 01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-7	NWSW GW	PRE-RCRA	LF	MW 11
01052940-10 NWSW GW PRE-RCRA LF MW 16 01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	010-2940-8	NWSW GW	PRE-RCRA	LF	MW 12
01052940-11 NWSW GW PRE-RCRA LF MW 17 01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-9	NWSW GW	PRE-RCRA	LF	MW 15
01052940-12 FIELD DUPLICATE PRE-RCRA LF MW 17 DUP 01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-10	NWSW GW	PRE-RCRA	LF	MW 16
01052940-13 NWSW GW PRE-RCRA LF MW 18	01052940-11	NWSW GW	PRE-RCRA	LF	MW 17
	01052940-12	FIELD DUPLICATE	PRE-RCRA	LF	MW 17 DUP
01052940-14 FIELD BLANK PRE-RCRA LF FIELD BLANK	01052940-13	NWSW GW	PRE-RCRA	LF	MW 18
	01052940-14	FIELD BLANK	PRE-RCRA	LF	FIELD BLANK

Certified by:

Kurt C. Stepping, Director of Client Services

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State of Indiana Certified Drinking Water Lab No. C-IL-04

tate of Iowa Certified Wastewater Lab No. 240

herican Industrial Hygiene Association Bulk/Air Asbestos Proficiency Program Lab ID No. 101206CRA RECURDS ROOM
State of North Dakota Wastewater and Hazardous Waste CertifiedLab No. R-094
Waste, Pesticides & Toxics Division
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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-1 Client ID: NWSW GW Site: PRE-RCRA LF Locator: MW 2 Collect Date: 22-MAY-01 14:20

Parameter		Result	Units	Date	ву
SW-846 Method 8260B					
cis-1,2-Dichloroethene		7.0	ug/l	24-May-01 14:32	TJP
Vinyl chloride	<	2.0	ug/l	24-May-01 14:32	TJP



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121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-2

Client ID: NWSW GW

Site: PRE-RCRA LF

Locator: MW 3

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
cis-1,2-Dichloroethene	32.	ug/l	24-May-01 15:01	TJP
Vinyl chloride	160	ug/l	24-May-01 15:01	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-3

Client ID: NWSW GW
Site: PRE-RCRA LF
Locator: MW 4
Collect Date: 23-MAY-01 08:25

Parameter		Resul	t Units	Date	Ву
SW-846 Method 8260B					
cis-1,2-Dichloroethene	<	5.0	ug/l	24-May-01 15:31	TJP
Vinyl chloride		66.	ug/l	24-May-01 15:31	TJP



P.O. Box 9071 • Peoria, IL 61612-9071 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-4 Client ID: NWSW GW

Site: PRE-RCRA LF
Locator: MW 5
Collect Date: 22-MAY-01 12:44

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
cis-1,2-Dichloroethene	13.	ug/l	24-May-01 16:00	TJP
Vinyl chloride	14.	ug/l	24-May-01 16:00	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-5 Client ID: NWSW GW

Site: PRE-RCRA LF

Locator: MW 6

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B					
cis-1,2-Dichloroethene	<	5.0	ug/l	24-May-01 16:30	TJP
Vinyl chloride	<	2.0	ug/l	24-May-01 16:30	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-6
Client ID: NWSW GW
Site: PRE-RCRA LF
Location: MW 8

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B					
cis-1,2-Dichloroethene	<	5.0	ug/l	24-May-01 16:59	TJP
Vinyl chloride	<	2.0	ug/l	24-May-01 16:59	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-7

Client ID: NWSW GW

Site: PRE-RCRA LF

Locator: MW 11

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B cis-1,2-Dichloroethene Vinyl chloride	73. 5.0	ug/l ug/l	24-May-01 17:29 24-May-01 17:29	TJP TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-8 lient ID: NWSW GW
Site: PRE-RCRA LF
Locator: MW 12 Client ID:

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B cis-1,2-Dichloroethene Vinyl chloride	< <	5.0	ug/l ug/l	24-May-01 17:58 24-May-01 17:58	TJP TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-9

Client ID: NWSW GW

Site: PRE-RCRA LF

Locator: MW 15

Parameter		Result	Units	Date	Ву
W-846 Method 8260B cis-1,2-Dichloroethene	<	5.0	ug/l	24-May-01 18:27	TJP
Vinyl chloride	<	2.0	ug/l	24-May-01 18:27	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-10
Client ID: NWSW GW
Site: PRE-RCRA LF
Locator: MW 16

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
cis-1,2-Dichloroethene	34.	ug/l	24-May-01 18:57	TJP
Vinyl chloride	18.	ug/l	24-May-01 18:57	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-11 Client ID: NWSW GW

Site: PRE-RCRA LF

Locator: MW 17

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
cis-1,2-Dichloroethene	7.0	ug/l	24-May-01 19:26	TJP
Vinyl chloride	76.	ug/l	24-May-01 19:26	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Date Received: 23-May-01
Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Attn: Mr. Dave Long Login No. 01052940

Sample No: 01052940-12

Client ID: FIELD DUPLICATE
Site: PRE-RCRA LF

Locator: MW 17 DUP

Parameter	Result	Units	Date	Ву
W-846 Method 8260B				
cis-1,2-Dichloroethene	8.0	ug/l	24-May-01 19:55	TJP
Vinyl chloride	84.	ug/l	24-May-01 19:55	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-13 Client ID: NWSW GW

Site: PRE-RCRA LF

Locator: MW 18

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B cis-1,2-Dichloroethene		16.	119/1	24-May-01 20:24	TJP
Vinyl chloride	<	2.0	ug/l	24-May-01 20:24	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 23-May-01 Date Reported: 28-Jun-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01052940

Sample No: 01052940-14
Client ID: FIELD BLANK
Site: PRE-RCRA LF
Locator: FIELD BLANK

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B					
cis-1,2-Dichloroethene	<	5.0	ug/l	25-May-01 10:39	TJP
Vinyl chloride	<	2.0	ug/l	25-May-01 10:39	TJP

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS
CODE CODE
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Q

Q

pH (unfiltered units)

Q ELEV OF GW SURF (ft ref MSL)

DEPTH OF WATER (ft below LS)

DEPTH TO WATER FM MEA PT (ft)

BTM WELL ELEV (ft ref MSL)

Page 1 of 2

6 0 7

2 9

RT DUE DATE 0 7 / 1 5 /	0 1	FEDERAL	ID NUMBER _		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0	7	MONITOR POI	NT NUMBER G	1 0 2 M 58
		18	(See instructions)		
REGION 1 CO. White	eside		DATE COLLEC	TED $\frac{0}{23} = \frac{5}{M} = \frac{7}{2}$	$\frac{2}{2} \frac{2}{0} / \frac{1}{20}$
FACILITY NAME Northwestern Steel & Wire C	ompany Pre-RCRA	Landfill			
FOR IEPA USE ONLY		BACKGROUND SA	AMPLE (X)	TIME COLLECTED	1 4 : 2 0 55 H
		UNABLE TO COLL	ECT SAMPLE	59	
DATE RECEIVED		MONITOR POINT	SAMPLED BY	A	OTHER (Specify)
	SAMPI	LE FIELD FILTERED	-INORGANICS (X)	ORGANIC	CS(X)
SAMPLE APPEARANCE T 53	<u>U R B I D</u>				
COLLECTOR COMMENTS				102	
LAB COMMENTS				142	
RECORD CODE LPCSM02		TRANS CODE	(COLUMNS	9-29 FROM ABOVE)	199
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		REPLICATE OR	V	ALUE
Q TEMP OF WATER (unfiltered F)	0 0 0 1	1 34 35	37		. 9 47
Q SPEC COND (unfiltered umhos)	0 0 0 9	4 _		8 2 0	

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failuge do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been apply by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

0 0 4 0 0

9

7 2 0 2 0

7 2 1

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CHEMICAL ANALYSIS FORM

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IEPA/DLPC

RE	RD CODE	LPCSM02	TRANS CODE A	
SITE	INVENTORY NUMBER	$\frac{1}{9} \frac{9}{5} \frac{5}{0} \frac{0}{5} \frac{0}{0} \frac{0}{0} \frac{0}{18}$	MONITOR POINT NUMBER $\frac{G}{19} = \frac{1}{2} = \frac{0}{2}$	2 2
co.	Whiteside		DATE COLLECTED 0 5 / 2 2 /	
	Northwestern Steel & W	/ire Company Pre-RCRA Landfill		

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE			ORI		Rem	n Re	o or >	Value
cis-1,2-Dichloroethylene	7 30			9	3 35	-36	37	38 7 47
Vinyl Chloride	3	9	1	7	5 _	-	<	2
	_	_	F			_	-	
	-	_	-			_	_	
	-	_	=			-	-	
	-	_	+	_	-	-	-	
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	-	_	-	_		-	-	
	-	_	_			_	_	

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS CODE CODE PICIS MO 1 LA

Page 1 of 2

REPORT DUE DATE	0	7	1	1	5	1	0	1
	74	-		_	_		-	-

RE	SION 1 CO. Whit	eside		(See to	NITOR POINT NU		G 1 0 3 w	0 1 20
FO	RIEPA USE ONLY		BACK	GROUND SAMPLE (X)	IME COLLEC	TED 1 8	: 5 9
LA			UNAB	LE TO COLLECT SA				
DA	E RECEIVED		1000100	TOR POINT SAMPLE	360		rtial pump	
	42 M D Y 47		(See endfuc	bers)			OTHER (Specify)	
		SAM	MPLE FIEL	D FILTERED-INORG	ANICS (X)	OR	GANICS(X)	W .
	SAMPLE APPEARANCE							
	9, 14, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16					— 102		
	COLLECTOR COMMENTS							
_	122							
	_					142		
RE	LAB COMMENTS CORD CODE L PCSM02	 		RANS CODE [A]	(COLUMNS 9-29 FI			1
RE	110	STOR	ET	RANS CODE A REMARKS REPLICA	<		VALUE	<u> </u>
	CORD CODE LIPICISIMIO 2 FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND	STOR	ET ER	REMARKS REPLICA	ATE OR	ROM ABOVE)	VALUE	1 1
a	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STOR NUMB	ET ER 1 1 2	REMARKS See instr.	ATE OR	ROM ABOVE)		1
a a	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F)	STOR NUMB 0 0 0 0 0 0	ET ER 1 1 2	REMARKS See Instr.	ATE OR	ROM ABOVE)	<u>2</u> · <u>7</u> _	1
a a a	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos)	STOR NUMB 0 0 0 0 0 0 0 0 4	ET ER 1 1 3 9 4	REMARKS See instr.	ATE OR >	ROM ABOVE)	2 · 7 _ 0 · 7 · 1 7	
0 0 0	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos) pH (unfiltered units)	STOR NUMB 0 0 0 0 0 0 0 0 4 7 1 9	ET ER 1 1 2 2 9 4 0 0	REMARKS See Instr.	ATE OR >	FOM ABOVE)	2 · 7 0 · 7 · 1 7 4 · 5 3	
0 0 0 0	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos) pH (unfiltered units) ELEV OF GW SURF (ft ref MSL)	STOR NUMB 0 0 0 0 0 0 0 0 4 7 1 9 7 2 0	ET ER 1 1 3 9 4 0 0 0 0 9 3	REMARKS See Instr.	ATE OR >	ROM ABOVE)	2 · 7	

ency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Perce to do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

PAVDLPC

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LPCSM02 TRANS CODE A RECORD CODE MONITOR POINT NUMBER G 1 0 3 1 9 5 0 5 0 0 0 0 7 SITE INVENTORY NUMBER DATE COLLECTED $\frac{0}{23} \frac{5}{M} / \frac{2}{5} \frac{3}{3} / \frac{0}{7} \frac{1}{27}$ CO. Whiteside Northwestern Steel & Wire Company Pre-RCRA Landfill

LAB 1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE		NL	OR	ER		Rem	Rep	< or >	Value
cis-1,2-Dichloroethylene	7	7	0	9	3	35	-	< 31	π 3 2 · π
Vlnyl Chloride	3	9	1	7	5	1-	-	-	<u>1 6 0</u>
	_	=	_	_	_	-		-	
	-	_	_	_	_	-	_	-	
	_	_	_	_	=	-	_	_	
	-	=	_	_	_	_	_	_	
	-	=	=	_	_	-	_	-	
	-	=	=	=	-	-	-	-	,
	-	_	=	_	=	-	-	_	
	+	=	=	_	_	-	-	_	
	+	_	=	_	_	-	-	_	
	+	_	=	_	_	_	_	_	
	+	_	-	_	_	-	-	-	
	-	_	=	=	_		_	_	
	+	_		_	_			_	
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	1_	_		_	_		_	_	

RECORD TRANS
CODE CODE
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Page 1 of 2

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REART DUE DATE	0	7	1	1	5	/	0	1
	36	M		_	_			41

		FEDERAL	D NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7		MONITO (See instructions)	R POINT N	UMBER G 1 0 4 58
REGION1 COWhite	eside		DATE CO	DLLECTED	
ACILITY NAME Northwestern Steel & Wire C	ompany Pre-RCRA Lan	dfill			23 M D Y 28
OR IEPA USE ONLY	ВА	CKGROUND SA	MPLE (X)		TIME COLLECTED 0 8 : 2
AB		IABLE TO COLL	ECT SAMPLE		
DATE RECEIVED		ONITOR POINT	SAMPLED BY	3	inertial pump ones (Secuty)
<u>K. C. C.</u>	SAMPLE F	IELD FILTERED	-INORGANIC	S (X)	ORGANICS(X)
SAMPLE APPEARANCE					
COLLECTOR COMMENTS					102
LAB COMMENTS		TRANS CODE			
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS See Instr.	REPLICATE	< OR >	VALUE
Q TEMP OF WATER (unfiltered F)	0 0 0 1 1	35	_	37	5 2 . 2
SPEC COND (unfiltered umhos)	0 0 0 9 4	_	_	-	8 4 0
Q pH (unfiltered units)	0 0 4 0 0		_	-	7 . 2 1
ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3	-	_		6 1 5 . 9 9
DEPTH OF WATER (ft below LS)	7 2 0 1 9	-	_		<u>1</u> <u>2</u> . <u>0</u> <u>5</u>
A BTM WELL ELEV (ft ref MSL)	7 2 0 2 0				5 8 6 . 0 3
DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9	No.			1 1 . 7 3

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RE	CODE LPCSM02	TRANS CODE A	
SITE	INVENTORY NUMBER 1 9 5 0 5 0 0 0 7 18	MONITOR POINT NUMBER $\frac{G}{19} = \frac{1}{19} = \frac{0}{22}$	
co.	Whiteside	DATE COLLECTED $\frac{0}{23} \frac{5}{M} / \frac{2}{0} \frac{3}{3} / \frac{0}{7} \frac{1}{20}$	8
	Northwestern Steel & Wire Company Pre-RCRA Landfill FACILITY NAME	LAB 1	

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE			TOR JMB			Rem	Rep	or	Value
	cis-1,2-Dichloroethylene	7 30	7	0	9	3	35	36	< 37	38
	Vinyl Chloride	3	9	1	7	5		_	_	66
		-	_	+	_	_	-	_	-	
		_	_	4	-	-	-	_	-	
		-	_	+	-	-	-	_	-	
		-	_	+	_	-	-	-	-	
(-	_	=	_	_		-	-	<u> </u>
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		-	-	7	_	_		-	-	
				1	7	7		_		
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		-	_	-	-	_	_	1	_	
		-	_	_	_	_	_	-	_	

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

RECORD TRANS
CODE CODE
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Page 1 of 2

- 1				-					
R	RT DUE DATE	0	7	/	1	5	/	0	1
	A CONTRACTOR OF THE PARTY OF TH	36			_	0			41

30 M		FEDERAL ID NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7	MONITO (See instructions)	R POINT NUM	BER G 1 0 5
REGION 1 CO. White	eside	DATE CO	DLLECTED	0 5 / 2 2 / 0 1
FACILITY NAME Northwestern Steel & Wire C	ompany Pre-RCRA Landfil	1		23 M D Y 28
FOR IEPA USE ONLY	BACK	GROUND SAMPLE (X)	TIME	E COLLECTED 1 2 : 4
AB		LE TO COLLECT SAMPLE		55 H M
DATE RECEIVED	MONI (See instruc	TOR POINT SAMPLED BY	3	inertial pump
	SAMPLE FIEL	D FILTERED-INORGANIC	S (X)	ORGANICS(X)
SAMPLE APPEARANCE				
_				102
COLLECTOR COMMENTS				
_				142
LAB COMMENTS				
_				199
RECORD CODE L P C S M 0 2	ТІ	RANS CODE A (COL	UMNS 9-29 FROM	MABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS See Instr.	OR >	VALUE
TEMP OF WATER (unfiltered F)	0 0 0 1 1	35	37 38	5 5 . 9
SPEC COND (unfiltered umhos)	0 0 0 9 4		- -	_ 8 3 0
Q pH (unfiltered units)	0 0 4 0 0			7 . 2 4
ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3		- -	_ 6 1 6 . 1 2
DEPTH OF WATER (ft below LS)	7 2 0 1 9		- -	1 1 . 2 4
A BTM WELL ELEV (ft ref MSL)	7 2 0 2 0			_ 5 7 8 . 6 9
Q DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9	64 4 554		1 0 . 9 0

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CHEMICAL ANALYSIS FORM

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IEPA/DLPC

RECORD CODE

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TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9} \ \frac{9}{5} \ \frac{0}{0} \ \frac{5}{0} \ \frac{0}{0} \ \frac{0}{0} \ \frac{0}{18}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{0} \frac{0}{22}$

CO. Whiteside

DATE COLLECTED $\frac{0}{23} \frac{5}{M} / \frac{2}{0} \frac{2}{2} / \frac{0}{V} \frac{1}{28}$

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

	LAB MEASUREMENTS					- 1	18.5		<	
	CONSTITUENT DESCRIPTION AND		ST	TOR	ET		Rem	Rep	or	Value
	REQUIRED UNIT OF MEASURE		NU	JMB	ER		- 1	10	>	
	cis-1,2-Dichloroethylene	7 30	7	0	9	3	35	36	37	3 1 3
	Vinyl Chloride	3	9	1	7	5	_	_	_	1_4
		-	_	+	_	_	_	_	_	
		-	_	=	_	_	-	-	_	
		-	-	_	_	_	-	-	-	
		-	_	=	_	_	-	-	-	·
•		-	=	+	_	-	-	-	-	
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		+	=	=	_	_	-	_	_	
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		-	_	7	_	_	-	-	-	
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RECORD TRANS
CODE CODE
L|P|C|S|M|0|1| A

A

Page	1	of	2
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King a second		TEDERALI	D NUMBER	
SITE INVENTORY NUMBER 1 9	5 0 5 0 0	0 0 7	MONITOR POINT NUMBE (See instructions)	$\frac{G}{19} \frac{1}{H} \frac{0}{M} \frac{6}{58}$
REGION 1 CO.	Whiteside		DATE COLLECTED	$\frac{0}{23} \frac{5}{M}$ / $\frac{2}{2} \frac{2}{D}$ / $\frac{0}{23} \frac{1}{128}$
FACILITY NAME Northwestern Steel 8	& Wire Company Pre-	RCRA Landfill	1155 A A A	23 M D Y 28
FOR IEPA USE ONLY		BACKGROUND SA	MPLE (X)TIME	COLLECTED 1 1 : 3
ŁAB		UNABLE TO COLL	ECT SAMPLE	
DATE RECEIVED	47	MONITOR POINT (SAMPLED BY 3	inertial pump on∈R (Specify)
		SAMPLE FIELD FILTERED	-INORGANICS (X)	ORGANICS(X)
SAMPLE APPEARANCE	63			
				102
COLLECTOR COMMENTS	103			
				142
LAB COMMENTS	150			
				199
RECORD CODE LIPICISIM	0 2 2	TRANS CODE	A (COLUMNS 9-29 FROM	ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE			ORI			REMARKS See Instr.	REPLICATE	or >						VAI	UE				
Q	TEMP OF WATER (unfiltered F)	0 30	0	0	1	1 4	35	_	37	38	_	_	5	4		7	_	_	_	47
Q	SPEC COND (unfiltered umhos)	0	0	0	9	4	-	_	-	-	_	7	2	0		-	-	_	-	_
Q	pH (unfiltered units)	0	0	4	0	0	-		-	-	_	_	-	7		3	4	-	_	-
Q	ELEV OF GW SURF (ft ref MSL)	7	1	9	9	3	-			-	_	6	1_	5		2	2	-	_	_
Q	DEPTH OF WATER (ft below LS)	7	2	0	1	9	_		-	-	_	_	1	1		4	2	-	-	-
A	BTM WELL ELEV (ft ref MSL)	7	2	0	2	0	- 1	_	-	-	_	5	9	0		5	6	-	-	
Q	DEPTH TO WATER FM MEA PT (ft)	7	2	1	0	9	-			-	_	_	1	1		1_	9	1	_	_

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failuged os of may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been appropriately by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

Page 2 of 2

IEPA/DLPC

RE	D CODE	L P C S M O 2	TRANS CODE A						
SITE	INVENTORY NUMBER	$\frac{1}{9} \frac{9}{} \frac{5}{} \frac{0}{} \frac{0}{} \frac{5}{} \frac{0}{} \frac{0}{} \frac{0}{} \frac{0}{} \frac{0}{} \frac{0}{} \frac{7}{} \frac{7}{} \frac{18}{}$	MONITOR POINT NU	MBER	G 19		0	5	
co.	Whiteside		DATE COLLECTED	0 5		~	2	1	1 28
	Northwestern Steel & W	ire Company Pre-RCRA Landfill							
		FACILITY NAME	LAB 1						

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND		67	TOR	ET		Rem	Rep	<	Value
	REQUIRED UNIT OF MEASURE			JMB			Kelli	кер	or >	value
	cis-1,2-Dichloroethylene	7 30	7	0	9	3	35	36	< 37	37 — — — <u>5</u> · — — — 47
V. S.	Vinyl Chloride	3	9	1	7	5	_		<_	
		-	_	-	_	_	4	_	_	
		-	_	+	_	_	-	-	_	
		-	_	_	_	_	-	_	5 - 2	
_		+	_	-	-	_		-		
		-	=	+	_	-	-	-	-	
		-		=	_	_	-	_	-	
		-	_	+	_	-	-	_	_	
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		-	_	1	_	_	-	-	-	
		-	_	-	-		-		-	
		-	_	1		-		_	_	
		1 4	_	1	-	-	4 1			
		-	_	-		-				

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

RECORD **TRANS**

Page 1 of 2

L P C S M O	1		A					
REAL DUE DATE	0	7 M	1	1	5	1	0	41

36 M	Y 41	FEDERAL ID NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7	MONITO (See instructions	R POINT NUM	BER G 1 0 8
REGION 1 CO. White	eside		OLLECTED	
FACILITY NAME Northwestern Steel & Wire C	The second second			$\frac{0}{23} \frac{5}{M} / \frac{2}{2} \frac{2}{D} / \frac{0}{1} \frac{1}{28}$
		7		
FOR IEPA USE ONLY	BACK	(GROUND SAMPLE (X)	71M	E COLLECTED 1 5 : 0 0
AB	UNAE (See instruc	BLE TO COLLECT SAMPLI	59	
DATE RECEIVED	MONI	TOR POINT SAMPLED BY	3	inertial pump
42 M O Y 47	(See instruc		60	OTHER (Specify)
	SAMPLE FIEL	D FILTERED-INORGANIC	S (X)	ORGANICS(X)
SAMPLE APPEARANCE T	<u>U R B I D</u>			
-				102
COLLECTOR COMMENTS				
103			4 36	
				142
LAB COMMENTS				
<u>-</u>				
RECORD CODE LPCSM02	Т	RANS CODE A (COL	UMNS 9-29 FROM	A ABOVE)
FIELD MEASUREMENTS			<	
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET	REMARKS REPLICATE See Instr.	OR >	VALUE
Q TEMP OF WATER (unfiltered F)	0 0 0 1 1	35	37 38	5 2 . 3
Q SPEC COND (unfiltered umhos)	0 0 0 9 4			_ 7 4 0
Q pH (unfiltered units)	0 0 4 0 0			7 . 3 1
Q ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3			_ 6 1 6 . 2 9
Q DEPTH OF WATER (ft below LS)	7 2 0 1 9			4 . 4 2
A BTM WELL ELEV (ft ref MSL)	7 2 0 2 0			_ 5 5 7 . 4 2
Q DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9		19.19.	6 . 3 1

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failured os may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

IEPA/DLPC

RECORD CODE

L P C S M O 2

TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{18}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{2} \frac{0}{2}$

CO. Whiteside

DATE COLLECTED $\frac{0}{\frac{23}{23}} \frac{5}{M} / \frac{2}{0} \frac{2}{2} / \frac{0}{1} \frac{1}{\frac{28}{1}}$

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB _____1___

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Rem Rep	or >	Value
cis-1,2-Dichloroethylene	$\frac{7}{30} \frac{7}{0} \frac{9}{0} \frac{3}{34}$	35 36	< 37	38 — — — <u>5</u> · — — — 47
Vinyl Chloride	3 9 1 7 5	_	< _	² ·
			-	
			-	
			-	
			-	
			-	
			-	
			-	
			-	
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			7.0	

M analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.



RECORD TRANS
CODE CODE
L|P|C|S|M|0|1| A

Page 1 of 2

1	7		-8					
RT DUE DATE	0	7	1	1	5	/	0	1
	36	м		_	0		7	41

,	5 0	0 0	0	7		MONITO (See instructions)	R POINT N	JMBER		G 1				
REGION 1 CO. White	eside					DATE CO	OLLECTED	0	5 M	1 2	2	1	0 1	
FACILITY NAME Northwestern Steel & Wire C	ompany	Pre-RC	RA	Landfil				2	3 м		D		Y 28	
OR IEPA USE ONLY				BACK	GROUND SA	MPLE (X)		IME COL	LECT	ED	1	3	: _1	1
AB				UNAE		ECT SAMPLE								
DATE RECEIVED				MONI	TOR POINT	SAMPLED BY	Α							
42 M D Y 47				(See instruc			60				THER (Spec			
						-INORGANIC	S (X)	61	ORG	ANIC	S(X).		62	_
SAMPLE APPEARANCE T	U R	<u>B</u> <u>I</u>	D		<u>B</u> <u>L</u> <u>A</u>	<u>c K</u>								
COLLECTOR COMMENTS	 		_					142						
LAB COMMENTS			_	— - т	RANS CODE			ROM ABOV	— - — - /E)		_	199		
		STOR		т	Т	A (COL	UMNS 9-29 FI	ROM ABOV	/E)	VA	ALUE	199		
RECORD CODE L P C S M 0 2 7	0 30		ER		REMARKS See Instr.	8	OR >	ROM ABOV	/E)		ALUE	199		
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F)	0	NUMB	ER	1	REMARKS	8	< OR	ROM ABOV	5			199		
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F) Q SPEC COND (unfiltered umhos)	0 30 0	0 0	1 9	1 4	REMARKS See Instr.	8	OR >	38	5 2	2 .	3			
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos) PH (unfiltered units)	0 30 0	0 0 0 0	1 9	1 4	REMARKS See Instr.	REPLICATE	< OR >	38 — 8 — 8	5 2	2 · · · · · · · · · · · · · · · · · · ·	3 - 2			
RECORD CODE L P C S M 0 2 7	0 30 0 0	0 0 0 0 0 4 1 9	1 9 0	1 4 0	REMARKS See Instr.	REPLICATE	< OR >	38 — 8 — 8	<u>5</u>	2 · · · · · · · · · · · · · · · · · · ·	<u>3</u> - <u>2</u> <u>8</u>			
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos) PH (unfiltered units) ELEV OF GW SURF (ft ref MSL)	0 20 0 0 7	0 0 0 0 0 4 1 9	9 0 9 1	1 4 0 3 9	REMARKS See Instr.	REPLICATE	< OR >	38 — 8 — 8	5 2 - 1	2 · · · · · · · · · · · · · · · · · · ·	<u>3</u> - <u>2</u> <u>8</u>			

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failuged os o may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been appropriately by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

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RECORD CODE

L P C S M O 2

TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{18}$

MONITOR POINT NUMBER $\frac{G}{19} - \frac{1}{22}$

CO. Whiteside

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

LAB MEASUREMENTS			<	
CONSTITUENT DESCRIPTION AND	STORET	Rem Rep	or	Value
REQUIRED UNIT OF MEASURE	NUMBER		>	
cis-1,2-Dichloroethylene	7 7 0 9 3	35 36	37	38 7 3 ·
Vinyl Chloride	3 9 1 7 5		-	5
			-	
		_	-	
			_	
			-	
			-	
			-	
			-	
			-	
			-	
			-	
			-	
			-	
			-	
		- -	-	
			-	
			-	
			_	

Il analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved y the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.



RECORD TRANS
CODE CODE
L|P|C|S|M|0|1| A

Q DEPTH OF WATER (ft below LS)

Q DEPTH TO WATER FM MEA PT (ft)

A BTM WELL ELEV (ft ref MSL)

Page 1 of 2

REPORT DUE DATE 0 7 / 1 5 / 0 1

FEDERAL ID NUMBER

SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7	MONITO (See instructions)	R POINT NUMBER	G 1 1 2 58
REGION 1 CO. White	eside		LLECTED	0 5 / 2 2 / 0 1
ACILITY NAME Northwestern Steel & Wire Co	ompany Pre-RCRA Landfi			23 M D Y 28
		D B WINNEY.		
OR IEPA USE ONLY	BACK	(GROUND SAMPLE (X)	TIME CO	LLECTED 1 5 : 3
AB	UNAE (See instruc	BLE TO COLLECT SAMPLE	59	
DATE RECEIVED	MON	ITOR POINT SAMPLED BY	A	
42 M D Y 47	(See instruc		60	OTHER (Specify)
	SAMPLE FIEL	LD FILTERED-INORGANIC	S (X)	ORGANICS(X)
SAMPLE APPEARANCE				
63				
				102
COLLECTOR COMMENTS				
_				142
LAB COMMENTS				
LAB COMMENTS				
RECORD CODE LPCSM02	Т	RANS CODE A (COL	JMNS 9-29 FROM ABO	OVE)
1				
FIELD MEASUREMENTS	STORET	DEMARKS DEDITORE	< OB	VALUE
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS REPLICATE See Instr.	OR >	VALUE
CONSTITUENT DESCRIPTION AND		A STANDARD COMMITTEE TO A STANDARD COMMITTEE OF THE STANDARD COMMITTE	OR	VALUE 5 1 . 8
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F)	0 0 0 1 1 1 M	A STANDARD COMMITTEE TO A STANDARD COMMITTEE OF THE STANDARD COMMITTE	OR >	_ 5 1 . 8
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F)	0 0 0 1 1	See Instr.	OR >	
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	0 0 0 1 1 1 M	See Instr.	OR >	_ 5 1 . 8

gency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Famore to do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

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7 2 1

CHEMICAL ANALYSIS FORM

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IEPA/DLPC

R	RD CODE
SITI	E INVENTORY NUME

L P C S M O 2

A TRANS CODE

 $\frac{1}{9}$ $\frac{9}{}$ $\frac{5}{}$ $\frac{0}{}$ $\frac{5}{}$ $\frac{0}{}$ $\frac{0}{}$ $\frac{0}{}$ $\frac{0}{}$ $\frac{7}{}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{1} \frac{1}{22}$

CO. Whiteside

DATE COLLECTED $\frac{0}{23} \frac{5}{M} / \frac{2}{D} \frac{2}{2} / \frac{0}{Y} \frac{1}{28}$

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND	- 1-2	ST	TOR	FT		Rem	Rep	< or	Value
	REQUIRED UNIT OF MEASURE			JMB			T.C.III	пср	>	value
	cis-1,2-Dichloroethylene	7 30	7	0	9	3	35	36	< 37	<u></u>
	Vinyl Chloride	3	9	1	7	5	_	-	<u><</u>	<u>2</u> ·
		-	_	E	_	_	_	_	_	
			_	_	_	_	_	-	_	
		_	_	_	_	_	-	_	-	
		-	_	E	_	_	-	_	-	
		-	_	_	_	-	-	-	-	
		-	_	-	_	_	_	-	_	
100		-	_	_	_	-	-	-	-	
		-	_	-	_	_	-		-	
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		-	_	-	=	_	-	-	-	
		-	_	-	_	_	-	-	-	
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		-	_	-	_	_	-	-	_	
		+	_	-	_	-	-	_	-	
		-	_	-		_	-	-	-	
		-	_	_	_	_	-	-	-	

RECORD **TRANS** CODE CODE P C S MO A

Page 1 of

T DUE DATE

SITE INVENTORY NUMBER 1 9 5 0	5 0	0 0 0	7		MONITO (See instructions)	R POINT N	NUMBER G 1 1 5
REGION 1 CO. White	eside				DATE CO	OLLECTED	0 5 / 2 3 / 0 1
ACILITY NAME Northwestern Steel & Wire C	ompany	Pre-RCRA	Landfill				23 M D Y 28
			T		G-82	4	
OR IEPA USE ONLY			BACK	GROUND SA	MPLE (X)		TIME COLLECTED 0 9 : 4
AB			UNAB		ECT SAMPLE	59	
DATE RECEIVED			MONI	TOR POINT	SAMPLED BY	Α	
42 M D Y 47		CAMP	(See instruct		Monoralia	60	OTHER (Specify)
			LE FIEL	DFILTERED	-INORGANIC	S (X)	ORGANICS(X)
SAMPLE APPEARANCE O	<u>R</u> <u>A</u>	N G E	+-				
-							102
COLLECTOR COMMENTS							
103							
			T				142
CLAB COMMENTS							142
LAB COMMENTS							
RECORD CODE L P C S M 0 2			— — — —	RANS CODE		UMNS 9-29	147
RECORD CODE LIPICISIM 0 2			тг	RANS CODE			
RECORD CODE L P C S M 0 2 7		STORET		RANS CODE	A (COL	UMNS 9-29	
RECORD CODE L P C S M 0 2 7		STORET		T	8	<	FROM ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	0 200			REMARKS See Instr.	8	< OR >	FROM ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	<u>O</u> 30	NUMBER	1	REMARKS	8	< OR	FROM ABOVE) VALUE
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F) Q SPEC COND (unfiltered umhos)	0 30 0	0 0 1	1 4	REMARKS See Instr.	8	< OR >	FROM ABOVE) VALUE 5 2 . 3
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos) PH (unfiltered units)	0 30 0	0 0 1 0 0 9	4 0	REMARKS See Instr.	REPLICATE	< OR >	FROM ABOVE) VALUE 5 2 . 3
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos) PH (unfiltered units) ELEV OF GW SURF (ft ref MSL)	0 30 0	0 0 1 0 0 9 0 4 0	1 4 0 0 3	REMARKS See Instr.	REPLICATE	< OR >	FROM ABOVE) VALUE
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F)	0 0 0 0	0 0 1 0 0 9 0 4 0 1 9 9	1 4 0 0 3 9	REMARKS See Instr.	REPLICATE	< OR > 37	FROM ABOVE) VALUE

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IEPA/DLPC

CO.

RECORD CODE

L P C S M 0 2

TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{7}{18}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{1} \frac{1}{22}$

Whiteside

DATE COLLECTED $\frac{0}{\frac{23}{23}} \frac{5}{M} / \frac{2}{0} \frac{3}{2} / \frac{0}{y} \frac{1}{\frac{28}{28}}$

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB ____1__

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE				RET		Rem	Rep	< or >	Value
cis-1,2-Dichloroethylene	7 30	7	0	9	3	35	36	< 37	30 — — — 5 · — — — -
Vinyl Chloride	3	9	1	7	5	_	_	<_	2
	_	<u> </u>	1	_		_		_	
		_	4	_	_	_	_	-	
	-	_	-	_	_	_	_	-	
		_		_	_	_	_	_	
	-	_		_	_	_	_	_	
	-	_	-	_	-	-	-	-	
	-	_	4	7.0	_	-	_	_	
	-	_		_	_	_	-	_	
	-	_		_	-	-	_	-	
	+	_		_	_	-	_	_	
	-	_	-	_	_	-	-	_	
	+	_	-	-	_	-	-	-	
	+	_	-	_	_	-	_	_	
		-	_	_	_	-	-	-	
	-	-	-	_	_	-	12 1	-	
		_		-	_	-	-	-	

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.



RECORD TRANS
CODE CODE

Q ELEV OF GW SURF (ft ref MSL)

Q DEPTH OF WATER (ft below LS)

Q DEPTH TO WATER FM MEA PT (A)

A BTM WELL ELEV (ft ref MSL)

Page 1 of 2

6 1 4 . 0 5 _ _ _

5 7 8

1 2

0

5 5

REPORT DUE DATE 0 7 / 1 5 /	0 1	FEDERAL ID NUMBER		
SITE INVENTORY NUMBER	eside	(Geo train.colore)	R POINT NUMBE	ER $\frac{G}{N} \frac{1}{H} \frac{1}{M} \frac{6}{M}$ $\frac{0}{30} \frac{5}{M} \frac{1}{20} \frac{2}{0} \frac{1}{1} \frac{1}{N}$
FOR IEPA USE ONLY		CROUND SAMPLE OO	TIME	COLLECTED 1 1 1 2
LAB		E TO COLLECT SAMPLE	54 (34 to electr)	
DATE RECEIVED	MONIT (See Instruction	OR POINT SAMPLED BY	3 00	inertial pump
SAMPLE APPEARANCE	SAMPLE FIELD	D FILTERED-INORGANIC	s (x)	ORGANICS(X)
COLLECTOR COMMENTS TOT LAB COMMENTS				——————————————————————————————————————
RECORD CODE L P C S M O 2	TR	ANS CODE A (COL	LIMNS 8-29 FROM	ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS See Instr.	OR >	VALUE #
Q TEMP OF WATER (unfiltered F)	0 0 0 1 1	<u>_</u>	37 38 -	5 5 . 8
Q SPEC COND (unfiltered umhos)	0 0 0 9 4			8 1 0
Q pH (unfiltered units)	0 0 4 0 0			<u>7</u> . <u>0</u> <u>3</u>

This Agency is authorized to require this information under illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been applicable by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

7 1 9 9 3

7 2 0 1 9

7 2 0 2 0

7 2 1 0 9

IEPA/DLPC

	1		
REC	O	CODE	

LPCSM02

TRANS CODE A

SITE INVENTORY NUMBER

1 9 5 0 5 0 0 0 0 7

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{2} \frac{1}{2} \frac{6}{22}$

CO. Whiteside

DATE COLLECTED 0 5 / 2 2 / 0 1

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Rem	Rep	or >	Value
cks-1,2-Dichloroethylene	7 7 0 9 3	3	T.	TI I	ш — — — <u>3 4</u> · — — —
Vinyl Chloride	3 9 1 7 5	-	_	_	1_8
		-	_	-	
		-	-	-	
		-	-	-	
		-	-	-	
		-	_	-	
		_	-	-	
		-	_	-	
		-	-	-	
		-	-	-	
		-	-	-	
		-	_	-	
		-	_	-	
Manager 1 1 12 12 h		-	_	-	<u> </u>
		-	-	-	
		_	_	-	
		_	_	-	

All analytical productures asset be performed in accordance with the methods contained in "Test Methods for Evaluating Sofe Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1966 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and energias plan.

RECORD TRANS
CODE CODE
L|P|C|S|M|0|1| A

Page 1 of 2

		,							
RE	RT DUE DATE	0	7	/	1	5	1	0	- 1
		2.0	_		_			_	

RECEIT DUE DATE 0 7 7 1 5 7	<u>0</u> 1 / 41	FEDERAL ID NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7	MONITO (See instructions	OR POINT NUMI	BER G 1 1 7 58
REGION1 COWhit	eside	DATE C	OLLECTED	$\frac{0}{23} \frac{5}{M} / \frac{2}{2} \frac{2}{D} / \frac{0}{28} \frac{1}{28}$
FACILITY NAME Northwestern Steel & Wire 0	Company Pre-RCRA Landfil			23 M D Y 28
FOR IEPA USE ONLY	васк	GROUND SAMPLE (X)	TIMI	E COLLECTED 1 0 : 3 6
AB	UNAB (See instruc	LE TO COLLECT SAMPLE		20 m
DATE RECEIVED	MONI (See instruc	TOR POINT SAMPLED BY	3 90	inertial pump on∈R (Specify)
	SAMPLE FIEL	D FILTERED-INORGANIO	S (X)	ORGANICS(X)
SAMPLE APPEARANCE				
<u>-</u>				102
COLLECTOR COMMENTS				
CLAB COMMENTS				190
RECORD CODE LIPICISIMIO 2	Т	RANS CODE A (COL	LUMNS 9-29 FROM	A ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS REPLICATE See Instr.	OR.	VALUE
Q TEMP OF WATER (unfiltered F)	0 0 0 1 1	35	37 38	5 5 . 4
Q SPEC COND (unfiltered umhos)	0 0 0 9 4		- -	_ 8 8 0
Q pH (unfiltered units)	0 0 4 0 0			7 . 1 5
Q ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3			<u>6 1 3 . 8 3</u>
Q DEPTH OF WATER (ft below LS)	7 2 0 1 9			1 2 . 5 8
A BTM WELL ELEV (ft ref MSL)	7 2 0 2 0	-3		5 9 0 . 7 2
Q DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9		B/4 1 2	1 1 . 1 4

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

Page 2 of 2

IEPA/DLPC

RE	b	CODE

L P C S M O 2

TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{18}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{1} \frac{1}{22}$

CO. Whiteside

DATE COLLECTED $\frac{0}{23} \frac{5}{M} / \frac{2}{0} \frac{2}{2} / \frac{0}{V} \frac{1}{28}$

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE		NU	TOR JMB	ER		Rem	Rep	or >	Value
cis-1,2-Dichloroethylene	7 30	7	0	9	3 अ	35	36	37	3a — — — <u>7</u> · — — —
Vinyl Chloride	3	9	1	7	5	_	_	_	7 6
	_	_	-	_	-	_	_	_	
	-	_	-	_	_	_	_	-	
	-	_	+	_	-	-	-	_	
		_	_	_	_	_	-	_	
	-	_	_	_	_	-	_	_	
		_	-	_	_	_	_	_	
	-	_	_	_	_	_	_	-	
	-	_	=	_	_	-	-	_	
	-	_	_	_	_	_	_	_	
	-	_	_	-	-	-	_	_	
	-	_	-	_	_	_	_	_	
	-	_	_	_	-	_	-	-	
	-	_	_	_	=	-	-	_	
	-	_	_	_	_	_	_	-	
	-	-	_	=	-	_	-	_	
	-	_	_	_	_	-	_	_	
	_	_	_	_	_	_		- 1	

If analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agreement of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

RECORD TRANS CODE CODE |L|P|C|S|M|0|1| A

Page 1 of 2

1	7		8					
REAT DUE DATE	0	7	1	1	5	1	0	1
	14	_		_			-	

DEPTH TO WATER FM MEA PT (ft)

REST DUE DATE 0 7 / 1 5 /	0 1	FEDERAL I	D NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7		MONITOR (See instructions)	POINT NUMB	ER G 1 1 8 8 58
REGION 1 CO. White			DATE COL	LECTED	$\frac{0}{23} \frac{5}{M} / \frac{2}{2} \frac{2}{D} / \frac{0}{128}$
FACILITY NAME Northwestern Steel & Wire C	company Pre-RCRA Lan	dfill			
FOR IEPA USE ONLY	ВА	CKGROUND SA	MPLE (X)	- TIME	
LAB		IABLE TO COLL	ECT SAMPLE	59	
DATE RECEIVED		ONITOR POINT S	SAMPLED BY	3	inertial pump
	SAMPLE F	IELD FILTERED	-INORGANICS	(X)	ORGANICS(X)
SAMPLE APPEARANCE					
COLLECTOR COMMENTS					102
CLAB COMMENTS					142
RECORD CODE LPCSM02		TRANS CODE	(COLUM		ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS See Instr.	REPLICATE	or or	VALUE
Q TEMP OF WATER (unfiltered F)	0 0 0 1 1	35		37 38	5 5 . 0 47
Q SPEC COND (unfiltered umhos)	0 0 0 9 4		3-2		7 5 0
Q pH (unfiltered units)	0 0 4 0 0	_			7 . 1 4
Q ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3	-	_		6 1 4 . 1 4
Q DEPTH OF WATER (ft below LS)	7 2 0 1 9	- 1			1 1 . 3 3
A BTM WELL ELEV (ft ref MSL)	7 2 0 2 0			- 2	6 0 1 . 9 7

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7 2 1 0 9

IEPA/DLPC

RECOR	CODE

L P C S M 0 2

TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{5}{0}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{7}{18}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{1} \frac{1}{2} \frac{8}{22}$

CO. Whiteside

DATE COLLECTED $\frac{0}{23} \frac{5}{M} / \frac{2}{0} \frac{2}{2} / \frac{0}{7} \frac{1}{28}$

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

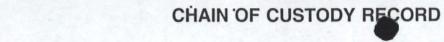
LAB 1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Rem	Rep	< or >	Value
cis-1,2-Dichloroethylene	7 7 0 9	3 35	36	37	<u></u>
Vinyl Chloride	3 9 1 7	5	_	<_	2
			-	-	
			_	_	
			-	-	
		-	-	-	
		-	-	-	
		-	-	-	
			-	-	
		-	-	-	1
			-	-	
			-	_	
				_	
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				_	
			_	_	

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-848, 3rd Edition, September 1986 or equivalent methods approved

PDC LABORATORIES, INC. 2231 WE ALTORFER DRIVE PEORIA, IL 61615

PHONE # 309-692-9688 FAX # 309-692-9689



ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT) PROJECT NUMBER P.O. NUMBER MEANS SHIPPED (FOR LAB USE ONLY) ANALYSIS REQUESTED NWSW LOGIN #01052940 **ADDRESS** PHONE NUMBER FAX NUMBER DATE SHIPPED LOGGED BY: JAS LAB PROJ. # ___ CITY SAMPLER MATRIX TYPES: STATE (PLEASE PRINT) TEMPLATE: ____ WW-WASTEWATER DAVID DW-DRINKING WATER GW-GROUND WATER PROJ. MGR.: ____ CONTACT PERSON WWSL-SLUDGE NAS-SOLID SIGNATIONE DAVE OTHER: SAMPLE TYPE GRAB | COMP DATE MATRIX TOTAL # SAMPLE DESCRIPTION REMARKS COLLECTED COLLECTED OF CONT TYPE 6N 3 1010 1015 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH The sample temperature will be measured upon receipt at the lab. By initialing (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing RUSH RESULTS VIA (PLEASE CIRCLE) FAX PHONE this area you allow the lab to proceed with analytical testing regardless of the sample temperature. FAX # IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE: RELINQUISHED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE) COMMENTS: (FOR LAB USE ONLY) TIME SAMPLE 1 MPERATURE UPON RECEIPT RELINQUISHED BY: (SIGNATURE) DATE RECEIVED AT LAB BY: (SIGNATURE) 5/23/01 CHILL FROMESS STARTED PRIOR TO RECEIPT YOR N SAMPLE & RECEIVED ON ICE YORN BOTTI - 3 SECEIVED IN GOOD CONDITION YORN TIME g. Starter TIME BOTTLES FILLED WITH ADEQUATE VOLUME YORN

YORN

SAMPL 3 RECEIVED WITHIN HOLD TIME(S)

PDC SORATORIES, INC. 2231 WEST ALTORFER DRIVE **PEORIA, IL 61615**

PHONE # 309-692-9688 FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

		DED AHEAS ME					PHINT)			
CLIENT CLIENT CONTROL OF THE STATE OF THE ST	PROJECT N	PROJECT NUMBER P.O. NUMBER		MEANS	SHIPPED	3 ANA	LYSIS RE	QUESTED	(FOR LAB USE ONLY)	
ADDRESS	PHONE NU	MBER	BER FAX NUMBER		DATE SHIPPED					LOGIN # 01052940
CITY STATE ZIP CONTACT PERSON	SAMPLER (PLEASE PRIN DA SAMPLER: SIGNATURE	AUD CAlhour			MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID					LAB PROJ. # TEMPLATE: PROJ. MGR.:
Dave Long	Na	me (al	L	•	OTHER:		A			
2 SAMPLE DESCRIPTION	DATE COLLECTED	TIME	SAMPLE GRAB	COMP	MATRIX TYPE	TOTAL # OF CONT	101			REMARKS
mw a	5/22/01	1420			GW	3	X			
MW 3	5/23/01	0859			GW	3	X			
mw4	5/23/01	0825			400	3	X			
Mw S	5/22/01	1244			6W	3	X			rigalandidanda - Pisto
MWb	5/22/1	1138			GW	3	X			
MW8	5/22/61	1450		£ 32	6W	3	X			
mw il	5/2/01	1315			6W	3	X			
Mw 12	5/22/9	1530			GW	3	X			
MW 15	5/23/01	0945	2		4w	3	X			
MN 16	5/22/01	1112			GW	3	X			
MW 17	5/22/4	1036			GW	3	X			100
MW 17 Dup	5/22/01	1040	2017		GW	3	*			
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) FAX FAX # IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:		PHONE			6	this area you	u request that temperature is u allow the lab	the lab no outside of	tify you, before the range of	receipt at the lab. By initialing fore proceeding with analysis, if of 0.1-6.0°C. By not initialing tical testing regardless of the
7 RELINQUISHED BY: (SIGNATURE) DA 5/2	RECEIVE	D BY: (SIGNATU	JRE)				DATE	8	СОММЕ	ENTS: (FOR LAB USE ONLY)
RELINQUISHED BY: (SIGNATURE) DA' TIM		D AT LAB BY: (S		E)			DATE 5/23/01 TIME	CHILL P SAMPLE BOTTLE	ROCESS S (S) RECEIVE S RECEIVE	NTURE UPON RECEIPT TARTED PRIOR TO RECEIPT VED ON ICE ED IN GOOD CONDITION WITH ADEQUATE VOLUME TO RECEIPT OF OR N WORN WITH ADEQUATE VOLUME
	(J. Str	to				13:55			ED WITHIN HOLD TIME(S) O OR N

GROUND WATER FIELD SURVEY FORM

110	12,17
Sample Point I.D.	Casing Vol. (gals)
Purge Date 3-22-1	Vol. Purged (gals)
Purge Time 735	Sample Method Waterna
Sample Date 5-22-1	
Sample Time 10 10	Seal No.
	444 71 7
Elevation	Total Well Depth 26 05
Water Level 13,88	Stick-Up
GW Elevation	Sample Temp. (°C) 12.8
Sample Appearance Sampler Comments Well OK	PREZY 55W 10 MPH
pii	715 714 750 750 728
Sp. Cond 7 50 7 50 (umhos) i3.4 13.2	715 770 739 730 730 730 730
Sp. Cond 7 30 7 8 0 13.2 13.2	715 714 770 750 128
Sp. Cond 7 30 7 8 0 13.2 13.2	715 750 750 739 750 128
Sp. Cond 7 50 7 50 13.2	715 750 720 750 729 750 128
Sp. Cond 7 30 7 8 0 13.2 13.2	715 750 720 750 728 FIELD BLANK Collect
Sp. Cond 7 50 7 50 13.2 13.2	715 714 770 750 128 FIELD BLANK Collect
Sp. Cond 7 3 0 7 8 2 13.2 13.2 13.2 JUL 2 2 2002	1015
Sp. Cond 7 % 0 7 % 0 13.2 13.2 13.2 III 2 2 2662 RCRA RECURDS ROOM	1015
Comments Comments CRA RECORDS ROOM Waste, Pesticides & Toxics Div	M Vision
Sp. Cond 7 % O 7 % O 13.2 Lab Comments DECEIVE JUL 22 2662 RCRA RECURDS ROOM	M Vision
Sp. Cond 7 XO (umhos) /3.4/ Lab Comments RCRA RECURDS ROOM Waste, Pesticides & Toxics Div U. S. EPA—REGION 5	M Vision
Sp. Cond 7 X D (umhos) /3.4 Lab Comments RCRA RECURDS ROOM Waste, Pesticides & Toxics Div U.S. EPA—REGION 5 I certify that sampling procedures v	M Vision
Sp. Cond 7 XO (umhos) /3.4/ Lab Comments RCRA RECURDS ROOM Waste, Pesticides & Toxics Div U.S. EPA—REGION 5 I certify that sampling procedures v	M Vision
Sp. Cond 7 X D (umhos) i3.4 Lab Comments RCRA RECURDS ROOM Waste, Pesticides & Toxics Div U. S. EPA—REGION 5	M Vision

GROUND WATER FIELD SURVEY FORM

Sample Point I.D. Ma		23.10 Casing Vol.	
Purge Date 5/22		Vol. Purged	(gals) /2
ruige iime	401	Sample	Method Waterra
Dampie Dave	36		
Sample Time/U	90	Se	eal No.
Elevation		34.18 Total Well	Depth_ 34.25
Water Level/	1.14	St	ick-Up/3
GW Elevation		Sample Temp.	(°C)/3
Weather Conditions Part Sample Appearance Sampler Comments	4 Cloudy	Wingy	55W 10+ MP1
Unable To Obtain Sample Sample Composited (X)	(A)	son cedure/Propor	tions
T		2	3
7.00	7,09	7.11	715
pH 7.09	880	880	880
bp. cond		THE RESERVE OF THE PARTY OF THE PARTY.	
(umhos) /3.8	13.7	13.2	13
Lab			
Comments			
		DID A	FIELD DUP
		on this	wed 1040
I certify that sampling I corporate protocols.	procedures w	ere in accordar	nce with EPA and

GROUND WATER FIELD SURVEY FORM

	W16	35.55	57
Sample Politi I.D.	2/01	Casing Vol. (ga Vol. Purged (ga	18) //
ruige Dave		voi. Purged (ga	hod Waterra
	2/01	Sample Met	IIOO VANCO
Sample Date ///		Seel 1	No.
Sample Time		bear	NO.
Elevation		Total Well Der	oth 48,10
	2.55	Stick-	Up_
GW Elevation			°C) 13.2
2	1011		
Weather Conditions	ly Cloudy		55W 10+
Sample Appearance	יום שני יוני		
Sampler Comments /3	for play . P	locking wind	
	(Y) Rea	gon	Li Serra Chicago
Unable To Obtain Sample	(A)	cedure/Proportions	g
Sample Composited (X)_	Fro	octul 6/ Froportion	
I	1	2	3
pH 7.45	717	709	7.03
Sp. Cond 790	800	790	810
(umhos) /3.8	13.5		13.2
(41111108) /5.8	13.3	13.2	73.0
	SOLUTION DE		
Lab			
Comments			
	Battle Link	State Supplement Programme Co. C.	
			THE RESERVE OF THE PARTY OF THE
		re in accordance	with EPA and
I certify that sampling	procedures we	TO THE GOODI GUILDO	
I certify that sampling corporate protocols.	procedures we	10 111 00001 001100	0
	procedures we	ro in accordance	0.1

GROUND WATER FIELD SURVEY FORM

	. 6	24.66	20
Sample Point I.D.	w 6	Casing Vol. (gals)	3.9
Dande Date	22/01	Vol. Purged (gals)	
Punde Time	2.3	Sample Method	WAterra
Sample Date 5/2	2/01		
Sample Time	•	Seal No	
Elevation	1.19	Total Well Depth	
Water Level/	7.00	Stick-Up Sample Temp. (°C)	17 (-
Wearings Commissions	Hy Sunny	Windy SSW	10+ MPH
Sampler Comments STE		n Annular Space - R	An into EVELL
	100	of war is come	a sour pica,
Jnable To Obtain Sample Sample Composited (X)_	(A)	ason ocedure/Proportions_	
I	1 -	2	3
7.79	7.37	7.31	2.34
pH 7.77 Sp. Cond 230	670	670	770
(umhos) 13	/3	12.8	12.6
Lab			
Comments			
certify that sampling corporate protocols.	procedures w	vere in accordance with	th EPA and

GROUND WATER FIELD SURVEY FORM

	M.1 -			37 -13		,
Sample Point I.D.	MW 5		Casi	ng Vol. (ga	als)(P
Purge Date	2-28-1			Purged (ga		8
Purge Time_	1230			Sample Met	hod Wa.	fora
Sample Date	3-22/					
Sample Time	1244			Seal	No.	
Elevation			То	tal Well De	pth 42	.33
Water Level	10.90	BELLE		Stick	-Up	
GW Elevation_			Samp		(°C)	13.3
Weather Conditions_						
		rain Est				
Sampler Comments	iater in	angular	space	2 1/2 from	top of	lasing
Trable Me Obtain Sem	mle (W)	Re	ason			
Unable To Obtain San				/Proportion	IS.	
Sample Composited (Α)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
pH_753		222		721	4	1.24
Para 1		723		5000		30
Sp. Cond 240		360		8 +0		
(umhos) 13.9		13.60		13,5	13	3.3
Lab						
Comments		Mark.				
			5			1453
			*			
I certify that com-	ine					
I certify that sampl corporate protocols	ing proce	dures w	ere in	accordance	with EPA	and
I certify that sampl corporate protocols Sampler Name (print	n.	dures w		accordance	with EPA	and all

GROUND WATER FIELD SURVEY FORM

	ID MN	11	11.02	14
Sample Point	t 1.D.		Casing Vol. (ga	ls) 1.8 ls) 5.5
	2000		Vol. Purged (ga	ls) Railer
Sample	-1		Sample Meth	nod Sailer
Sample	, 200		Cool 1	No.
Sample	Time		Seal	NO.
Elev	ation		76.29 Total Well Dep	oth 16.42
Water	Level_5	.40	Stick-	IIn
GW Elev	ration		Sample Temp. (
	Class	(CALL:	D' ((1)	in a mail
Weather Cond	litions Cloudy	- Spirring	Ram 5560 1	O+MPH
Sample Appea	arance / Urbi	0 Black		
	Well	ok NE	t Ditch Not	a un Ditch
		7-	-11-1	- M DITCH
Inable To Obt		(A)	ason	
ample compo	sited (X)		occur o, i i opoi mon.	
	Ī	1	2	3
рН	7.32	7.20	7.25	7.21
Sp. Cond	760	820	7.25	820
(umhos)	11.9	11.6	11.5	11.3
ab				
ab				
Lab Comments				
Comments	sampling p	rocedures w	vere in accordance	with EPA and
Comments		rocedures w	vere in accordance v	with EPA and
Comments	otocols.	rocedures w	vere in accordance v	with EPA and

GROUND WATER FIELD SURVEY FORM

	The same of the sa		
THE TO MW	12	Casing Vol. (gals)	1.9
sample Point 1.D.	2.01	Vol. Purged (gals)	
Purge Date		Sample Method	
Purge Time		Sample Method	
Sample Date		Cool No	
Sample Time /92	Har Barry 1	Seal No.	
		K.23 Total Well Depth	11,30
Elevation	20		
Marel Deact		Stick-Up Sample Temp. (°C)	11.1
GW Elevation		Sample Temp. (°C)	//, 6
01		1	TENCH IN
Weather Conditions Claus	/ Kains	intermitant	
Sample Appearance Turb	10 - NO OVER	Black	
Sempler Comments 5/600	+ map)		1 . 10
The state of the s	THE PARTY		to well
Tall 6	GRASS + WEEDS	water in Ditch	
Jnable To Obtain Sample	(X)Rea	ason	
Sample Composited (X)	D	cedure/Proportions_	
ample composited (A)_			
I		,	3
	1	2	2
pH 7.53	7.46	7.57	7.52
pH 7.53 Sp. Cond 800	7.46	820	7.52
PH COO			
Sp. Cond 800	830	820	820
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GROUND WATER FIELD SURVEY FORM

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GROUND WATER FIELD SURVEY FORM

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GROUND WATER FIELD SURVEY FORM

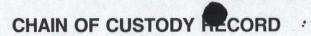
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GROUND WATER FIELD SURVEY FORM

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PDC L DRATORIES, INC. 2231 WEST ALTORFER DRIVE **PEORIA, IL 61615**

PHONE # 309-692-9688 FAX # 309-692-9689



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									LOGGED BY:			
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Dave Long	Name (alle					X						
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MWB	5/22/01	1138		Carrier Company	GW	3	X	Her E				
MW8	5/22/01	1450	and story		6W	3	X					
mw11	5/22/01	1315		el sid	6W	3	X	1 3				
Mw 12	5/22/9	1530			GW	3	X			Barrell Vice in the		
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INVESTIGATION OF THE PROPERTY												

PDC LASTRATORIES, INC. **2231 WEST ALTORFER DRIVE PEORIA, IL 61615**

CHAIN OF CUSTODY RECORD

PHONE # 309-692-9688 FAX # 309-692-9689

1 NWSW	PROJECT NUMBER		P.O. NUMBER		MEANS SHIPPED			NALYSIS REQUESTED	(FOR LAB USE ONLY)		
ADDRESS	PHONE NU	MBER	FAX NUMBER		DATE SHIPPED				LOGIN #		
CITY STATE ZIP	SAMPLER (PLEASE PRINT) DAVID CATHOUN SAMPLEDIS SIGNATURE WAND CALL			7	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID OTHER:				TEMPLATE:PROJ. MGR.:		
DAVE LONG							4		THOU. MOTA		
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TIM	E						TIME	BOTTLES RECEIVED IN GOOD CONDITION Y OR N BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) Y OR N			



PDC Laboratories, Inc.

P.O. Box 9071 • Peoria, IL 61612-9071 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Report Cover Page

Northwestern Steel & Wire Co. 121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 27-Jul-01 Date Reported: 31-Aug-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01073495

This report includes information regarding the following described samples as received by the laboratory and is only valid for the parameters tested. This report contains 1 results page(s) not including the cover page(s).

Sample No.

Client ID

Site

Locator

01073495-1

RESAMPLE

PRE-RCRA LF

MW 16

DECEIVED

RCRA RECURDS ROOM
Waste, Pesticides & Toxics Division
U. S. EPA — REGION 5

Certified by:

Kurt C. Stepping

Director of Client Services

PDC Laboratories participates in the following laboratory accreditation/certification and proficiency programs. Endorsement by the Federal or State Government or their agencies is not implied.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100230

State of Illinois Bacteriological Analysis in Drinking Water Certified Lab Registry No. 17533

State of Arkansas Certified Wastewater and Hazardous Waste Lab

State of Indiana Certified Drinking Water Lab No. C-IL-04

state of Iowa Certified Wastewater Lab No. 240

American Industrial Hygiene Association Bulk/Air Asbestos Proficiency Program Lab ID No. 101206

State of North Dakota Wastewater and Hazardous Waste CertifiedLab No. R-094

State of Wisconsin Certified Wastewater and Hazardous Waste Lab ID No. 998294430

This report shall not be reproduced, except in full, without the written approval of the laboratory.



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 27-Jul-01 Date Reported: 31-Aug-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01073495

Sample No: 01073495-1 Client ID: RESAMPLE

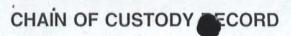
Site: PRE-RCRA LF

Locator: MW 16

Collect Date: 27-JUL-01 15:20

Parameter		Result	Units	Date		Ву
SW-846 Method 8260B cis-1,2-Dichloroethene		29	ug/l	06-Aug-01	12.00	PSB
Vinyl chloride	<	2.0	ug/l	06-Aug-01		PSB

PHONE # 309-692-9688 FAX # 309-692-9689



ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 N.WSW Pre RERA	PROJECT N		P.O. NUMBER		ANS SHIPPED	10	ALYSIS REQ	JESTED		(FOR LAB USE ONLY)
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NORTHWESTERN STEEL AND WIRE COMPANY Sterling, Illinois

GROUND WATER FIELD SURVEY FORM

Federal I. D. ILD005263157 Ill Site 1950500007

Sample Point I.D. MW 1C Purge Date 7-27-1 Purge Time 1450 Sample Date 7-27-1 Sample Time 15 20	Casing Vol. (gals) Vol. Purged (gals) Sample Method Seal No.
Elevation	Total Well Depth 2/8.10 Stick-Up Sample Temp. (°C) /45
Weather Conditions Sunn 5 Sample Appearance No Sampler Comments	80°7 D.W N.W 3'myn - /51.5h+ +n.6.2
Unable 10 Obtain Sample (A)	ReasonProcedure/Proportions
pH 715 721 Sp. Cond Lic 280 (umhos)	711 3767
Lab Comments	
I certify that sampling procedures corporate protocols.	were in accordance with EPA and Signature

CHAIN OF CUSTODY RECORD

PHONE # 309-692-9688 FAX # 309-692-9689

	ALL SHAL	DED AREAS MU	JST BE CO	DMPLETE	D BY CLIEN	II (PLEASE I	PHINT)	
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December 28, 2001

Illinois Environmental Protection Agency Bureau of Land Planning and Reporting Section # 24 1021 North Grand Avenue East P. O. Box 19276 Springfield, IL 62794-9276

RE: Northwestern Steel and Wire Co.
ILD 005 263 157
RCRA Part B Permit # B – 33R

Dear Sirs:

Northwestern Steel and Wire Company (NWSW) hereby submits the semi-annual progress report to IEPA for the Corrective Measures Implementation (CMI) for NWSW's pre-RCRA landfill under the renewed RCRA permit # B-33R. This progress report covers the period from September 22, 2000 through March 22, 2001. The preparation of the CMI was required by the Part B permit modification issued by the United States Environmental Protection Agency on March 22, 1993.

Please contact me at extension 2451 if you have any questions regarding this submission.

Very truly yours,

David E. Long

Environmental Manager

Enclosures

cc. Mr. Gale Hruska, USEPA Region V

CERTIFIED MAIL -- RETURN RECEIPT REQUESTED # 7001 0360 0002 3201 8771 Northwestern Steel and Wire Company Corrective Measures Implementation Semi-Annual Progress Report September 22, 2000 through March 22, 2001

August 1, 2001

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- 1.1 History of the Pre-RCRA Landfill
- 1.2 Description of the Selected CMI Remedy

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- 2.1 Prevention of Unauthorized Disturbance
- 2.2 Groundwater Sampling Procedures
- 2.3 Groundwater Sampling Results

3.0 PROBLEMS ENCOUNTERED

4.0 PERSONNEL CHANGES

5.0 ACTIVITIES FOR THE NEXT REPORTING PERIOD

- 5.1 Description of Activities
- 5.2 Schedule

6.0 TRIGGERING OF CONTINGENT CORRECTIVE MEASURES

7.0 COMMUNITY RELATIONS ACTIVITIES

7.1 Status of the Community Relations Objective

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1.0 INTRODUCTION

This semi-annual progress report (the Report) is the fourth progress report for the renewed RCRA Part B permit for Northwestern Steel and Wire Company (NWSW), Sterling, Illinois. This report documents the Corrective Measures Implementation (CMI) being conducted on the pre-RCRA landfill located at the NWSW facility. The Report covers the period September 22, 2000 through March 22, 2001. The CMI is being conducted in accordance with the approved CMI operation of the corrective measures selected to protect human health and the environment. The CMI work plan contains the procedures necessary to monitor the performance of the corrective measures implemented at the pre-RCRA landfill.

1.1 History of the Pre-RCRA Landfill

The landfill is located approximately 500 feet north of the Rock River (Figure 1) and covers approximately 13.5 acres and is approximately eight to ten feet deep. Solid waste was disposed in the pre-RCRA landfill beginning in 1974. The waste disposed in the pre-RCRA landfill consisted of slag, brick, construction debris, and two sludges generated by on-site pollution control systems. The pre-RCRA landfill was closed in 1980 and a new RCRA landfill opened to receive the two sludges only. This new landfill received a Part B permit for the disposal of these two sludges on November 4, 1987. The permit was subsequently renewed for ten years. The new permit was issued on March 10, 1999, with an effective date of April 14, 1999.

One condition of the RCRA landfill permit required a RCRA Facility Investigation (RFI) of the pre-RCRA landfill to determine if any releases from the landfill had occurred. The RFI was conducted in phases and determined that trichloroethylene (TCE), cis 1,2-dichloroethylene (DCE), and vinyl chloride (VC) were present in the groundwater beneath and downgradient from the landfill at elevated concentrations. Based on the findings of the RFI, the United States Environmental Protection Agency (U.S. EPA) required that NWSW conduct a Corrective Measures Study (CMS) to determine the best

corrective measure alternative to achieve an acceptable level of risk within the exposed population. The CMS consisted of three distinct tasks: 1) additional field tests, 2) a risk assessment, and 3) an evaluation of potential corrective measures and recommendation of the alternative(s) that would result in an acceptable risk to human health.

1.2 Description of the Selected CMI Remedy

The various remediation technologies were evaluated as to their potential applicability to the pre-RCRA Landfill situation. This evaluation included no action, limited action, source control, groundwater remediation, and a combination of source control and groundwater remediation. The risk assessment showed that the present situation results in an acceptable level of risk to human health and the environment. Therefore the no action and limited action alternatives are acceptable means of complying with the goals of the CMS. Both result in the protection of human health. The limited action alternative, which is incorporated in the Part B permit modification effective March 22, 1993, offers the additional benefit of on-going monitoring which will provide for the detection of changes in concentrations of the compounds of concern (TCE, DCE and VC). The renewed permit removed the testing requirement for TCE, since TCE has not been detected in any of the monitoring wells in over eight years.

2.0 CMI OPERATIONS

The corrective measure design for the pre-RCRA landfill consists of 1) a system to prevent unauthorized disturbance of the soil and fill in the pre-RCRA landfill, and 2) a system of continued groundwater monitoring until the landfill meets the cleanup objectives contained in the Part B permit. These corrective measures, which have not been changed since the last semi-annual progress report, are described below.

2.1 Prevention of Unauthorized Disturbance

Unauthorized disturbance of the soil and fill in the pre-RCRA landfill are prevented by NWSW's existing facility security system. NWSW has a facility security system in place

to prevent access by unauthorized personnel to the pre-RCRA landfill. NWSW employs 8 full-time guards plus 4 guard sergeants and a security supervisor. One sergeant supervises each eight-hour shift. The sergeant is responsible for conducting two complete inspections of the entire plant perimeter each shift to assure unauthorized personnel are not present. The pre-RCRA landfill area is included in these inspections.

A security fence with No Trespassing signs posted at various places along the fence surrounds the facility site occupied by NWSW. Access to the facility is gained through secured gates, therefore preventing unauthorized personnel from entering the facility. The main access gate to the facility is equipped with a guardhouse that is occupied at all times. A gate located on the western edge of the facility, adjacent to the non-hazardous waste landfill, remains closed and locked with access available only to authorized personnel. Additional signs have been posted around the pre-RCRA landfill as needed.

In March of 2001, NWSW landfill personnel discovered that the southeast corner of the landfill cover had been disturbed. Investigation so far indicated that the Union Pacific Railroad may have buried an electrical cable 2-3 feet deep from a box north of the landfill to a control shed located next to the tracks at the south end of the landfill. NWSW's attempts to contact the railroad have not been successful, but are continuing.

2.2 Groundwater Sampling Procedures

The groundwater monitoring wells around the pre-RCRA landfill are shown in Figure 2. The renewed Part B permit has identified the monitoring wells with new letter/number designations as follows:

Previous ID number	New ID number
MW-1	G101
MW-2	G102
MW-3	G103
MW-4	G104
MW-5	G105

MW-6R(replace	ment well) R106
MW-7	G107
MW-8	G108
MW-9	G109
MW-10	G110
MW-11	G111
MW-12	G112
MW-13	G113
MW-14	G114
MW-15	G115
MW-16	G116
MW-17	G117
MW-18	G118

The renewed RCRA permit requires that monitoring wells G103, G104, R105, G111, G116 and G117 be sampled semi-annually in April-May and October-November, and that monitoring wells G102, G106, G108, G112, G115 and G118 be sampled annually in April-May. Monitoring wells G103-4, R105, G111 and G116-7 delineate a Groundwater Management Zone (GMZ) at the site.

On November 14, 2000, six monitoring wells were sampled, as is the semi-annual requirement. The results of this sampling are being submitted with this progress report. The first year of required quarterly sampling was completed with the May 10, 1994 sampling event. NWSW has now moved into the semi-annual monitoring program.

According to Mrs. E. Kay Ingles of the Daily Analytical Laboratory (now PDC Laboratories, Inc.) the monitoring well sampling procedure is as follows.

Static water levels and well depth were measured in each well prior to sampling. Water levels were measured three consecutive times to the nearest 0.01-foot using a steel tape or electrical water level sensor, and recorded in the field notebook. Prior to collecting

groundwater samples for chemical analysis, water standing in the well casing and filter pack was purged so that the sample would be obtained from water representative of groundwater in the aquifer. A minimum of three well casing volumes of water was removed using a bailer or an inertial pump; whichever was appropriate for the depth of the well. Purged water was monitored for pH and specific conductance. Purging was considered complete when a minimum of three well casing volumes had been purged and the pH and specific conductance parameters had stabilized. Purged groundwater was temporarily stored in dedicated plastic containers and pumped back into each monitoring well after completion of each sampling event.

Groundwater samples from each well were collected using a clean Teflon® bailer.

Groundwater samples were carefully poured from the sampling bailer into pre-cleaned, laboratory-supplied glass VOA vials with Teflon® septum caps. The VOA vials were completely filled to eliminate air bubbles. Each groundwater sample was sealed and labeled using labels provided by the analytical laboratory. The sample identification for each sample was as follows:

- Site Identification (NWSW for Northwestern Steel and Wire Co.)
- Monitoring Well Number (G1XX)
- Ground water sample number (GW1) increasing sequentially.

A possible groundwater sample identification number is NWSW-G110-GW2, which indicates that this sample is the second collected at the Northwestern Steel and Wire site from monitoring well G110. Samples were placed on ice in a cooler for sample preservation. Water temperature, pH, Eh, and specific conductance measurements were measured and recorded in the field notebook at the time of sampling. Field measurement equipment were calibrated daily according to the manufacturer's recommendations.

As part of the quality assurance program, one duplicate groundwater sample and one field equipment blank per sampling event was collected and submitted to the laboratory for contaminant analysis. In addition, a trip blank was submitted with each sample shipment and analyzed for VOCs. Samples were collected as described above and were

shipped to the analytical laboratory in a timely manner. Chain-of-custody forms for the samples were included in each shipment.

Groundwater monitoring and sampling equipment was decontaminated prior to use at each monitoring well using procedures discussed in Section 9.12 of the CMI to prevent the possibility of cross-contamination between monitoring wells. Care was taken to prevent the decontaminated well purging and sampling equipment from coming into contact with the ground surface.

When samples were received at the laboratory, sample containers were inspected for integrity, proper labeling, proper preservation, and properly completed chain of custody form(s). The samples were logged in by the laboratory and a unique laboratory sample number assigned to each sample. Laboratory sample numbers were entered into the laboratory's master logbook and used on sample laboratory sheets. Other pertinent information such as the date and time of sample receipt was also recorded. Samples were stored in secured refrigerators at the laboratory.

Groundwater samples were analyzed for VC and DCE. Detailed information on the analytical procedures such as potential interferences, precision and accuracy of the methodology, and method detection limits are identified in Test Methods for Evaluating Solid Waste, SW-846 (EPA, 1986). For each groundwater sampling episode, laboratory quality assurance/quality control (QA/QC) consisted of analyzing field blanks, field duplicates, and standard laboratory QA/QC samples. Analytical analyses from PDC Laboratories are provided as Appendix A.

2.3 Groundwater Sampling Results

During the November 14th sampling event, monitoring wells G103-5, G111, G116 and G117 were sampled and analyzed for VC and DCE. Tables 1 and 2 summarize the

results of the groundwater sampling historical analysis conducted for the CMI Program under the latest RCRA permit.

The results presented in Table 1 show that for the 6 wells sampled, 4 wells (G103, G104, G116 and G 117) show an increase in VC concentration, and well R105 shows a decrease in VC concentration from the levels recorded on May 16-17, 2000, which was the last time these wells were sampled. The VC concentration at well G116 exceeded the maximum allowable permit level: Well G116 had a concentration of 17 ug/L versus a permit limit of 14 ug/L. These exceedances were identified in January 2001. PDC Laboratories was notified and the well was resampled on February 6, 2001. The analysis of the resample was 14 ug/L, which was at the permit limit. For this sampling event, the VC concentration in MW-4 was within the calibration range of the laboratory instrumentation. Consequently, no sample dilution prior to analysis was necessary.

Table 2 provides the analytical results for DCE during the sampling periods from May 1999 to the present. The November 14, 2000 results for the 6 monitoring wells sampled shows an increase in DCE concentration in 4 wells (G104, G111, G116 and G117), and a decrease in DCE concentration in two wells (G103 and G105). The DCE concentration for well G117 did not exceed the maximum allowable permit level of 97 ug/L for any of the three sampling events.

3.0 PROBLEMS ENCOUNTERED

One problem encountered during the six months that are the subject of this report for the implementation of the CMI plan was the VC concentration in well G116. The February retesting, however, showed that the VC concentration had dropped to within permit limits. Since the VC concentrations are now below permit limits, no further steps should be required. A second problem encountered is that a small corner of the landfill cover had been disturbed by trenching for an underground cable. The trench was made and

backfilled before NWSW personnel were aware of the disturbance. NWSW personnel continue to look for reasons for the disturbance.

4.0 PERSONNEL CHANGES

On December 19, 2000, NWSW entered Chapter 11 bankruptcy protection. During the period following this announcement, the project management organization remained the same as initially described in the CMI Work Plan including changes described in prior progress reports.

5.0 ACTIVITIES FOR THE NEXT REPORTING PERIOD

5.1 Description of Activities

The planned activities for the next reporting period include the continued operation and maintenance of the corrective measures implementation program as described in the CMI work plan. This will include periodic landfill inspections and maintenance. The groundwater sampling program and monitoring of the performance of the corrective measures implementation will also continue in accordance with the CMI work plan.

5.2 Schedule

A schedule for future groundwater sampling and reporting requirements is provided in Figure 3.

6.0 TRIGGERING OF CONTINGENT CORRECTIVE MEASURES

Section III(G)(1)(c) of the permit establishes maximum allowable DCE and VC concentrations in monitoring wells G103-5, G111 and G116-7. If an individual maximum concentration is exceeded, then the contingent corrective measures must be implemented. As discussed in Section 2.3, Results of Groundwater Data, the individual triggering concentration for VC was exceeded. However, since subsequent sampling

shows a return to lower VC values, no additional steps will be taken. There has been evidence of unauthorized disturbance of the pre-RCRA landfill soils or fill, and NWSW will continue to investigate how and why this occurred. No contingent corrective measures have been triggered at this time.

7.0 COMMUNITY RELATIONS ACTIVITIES

The Community Relations Plan (CRP) was prepared to guide community relation activities during the implementation of corrective measures at NWSW's pre-RCRA landfill. The purposes of the CRP are to make available to the local community, information concerning the corrective measures actions, and to facilitate communication between NWSW and the community. During this period of the CMI no citizens or interested parties have contacted NWSW concerning the CMI operations at the pre-RCRA landfill.

7.1 Status of the Community Relations Objectives

This section presents the status of the community relations objectives used during the implementation of the corrective measures to ensure that the community is included in the process. The following techniques were organized according to the objectives of the community relations program:

1. Objective: Provide community with information.

<u>Technique</u>: Establish information repository

<u>Purpose</u>: To provide site-specific information to the community.

Actions

<u>Taken</u>: The information repository was established at the following

location:

Northwestern Steel and Wire Company 121 Wallace Street, P.O. Box 618

Sterling, IL 61081-0618 Telephone: (815) 625-2500

2. Objective: Respond to community concerns and needs that arise during

the Corrective Measures Implementation.

Technique: Monitor community concerns.

Purpose: To continually assess and address community concerns throughout

the implementation of the corrective measures.

Action

Taken: NWSW has identified David Long, Environmental Manager, as the

contact person to whom citizens or groups can direct their written concerns and questions. NWSW has provided a telephone number for monitoring community concerns. The representative from NWSW remains accessible by telephone five days a week, Monday through Friday, from 8:00 a.m. to 5:00 p.m. at (815) 625-2500 ext.

2451.

3. Objective: Provide for effective management of the community relations

program.

<u>Technique</u>: Management of community relations program.

Purpose: To address community concerns that emerge as a result of

implementation of the corrective measures.

Action

Taken: No community concerns have emerged during this period of the

CMI. No comments or questions have been received during the

period covered by this progress report.

FIGURE 3

SCHEDULE FOR FUTURE CMI ACTIVITIES

GROUNDWATER SAMPLING, SEMI-ANNUAL, 12 WELLS

APRIL-MAY, 2001

CMI PROGRESS REPORT

SEPTEMBER-OCTOBER, 2001

GROUNDWATER SAMPLING SEMI-ANNUAL, 6 WELLS

OCTOBER-NOVEMBER, 2001

CMI PROGRESS REPORT

MARCH-APRIL, 2002

Table 1. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

Vinyl Chloride Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.			240	277	44	99					8					14	151	
5/13-14/99		<2	75	200	20	<2		<2			<2	<2		15	<2	<2	78	<2
11/11/1999	TO		140	87	13						12					28	89	
5/16-17/00	100000	<5	52	36	19	<5		<5			<5	<5			<5	11	62	<5
11/14/2000			58	98	15						<5					17	98	
02/06/2001									pris uga				14	194		14		
											7 10					7. 14		
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19 20 9 19 20																		
											100							Co-conte

^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit

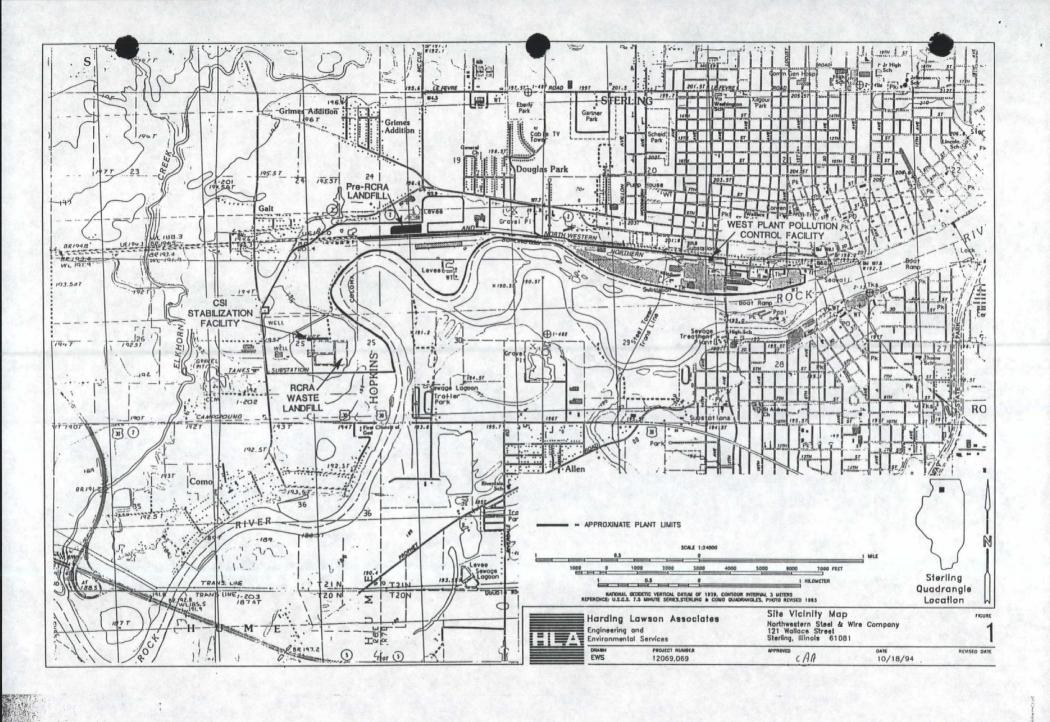
Table 2. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

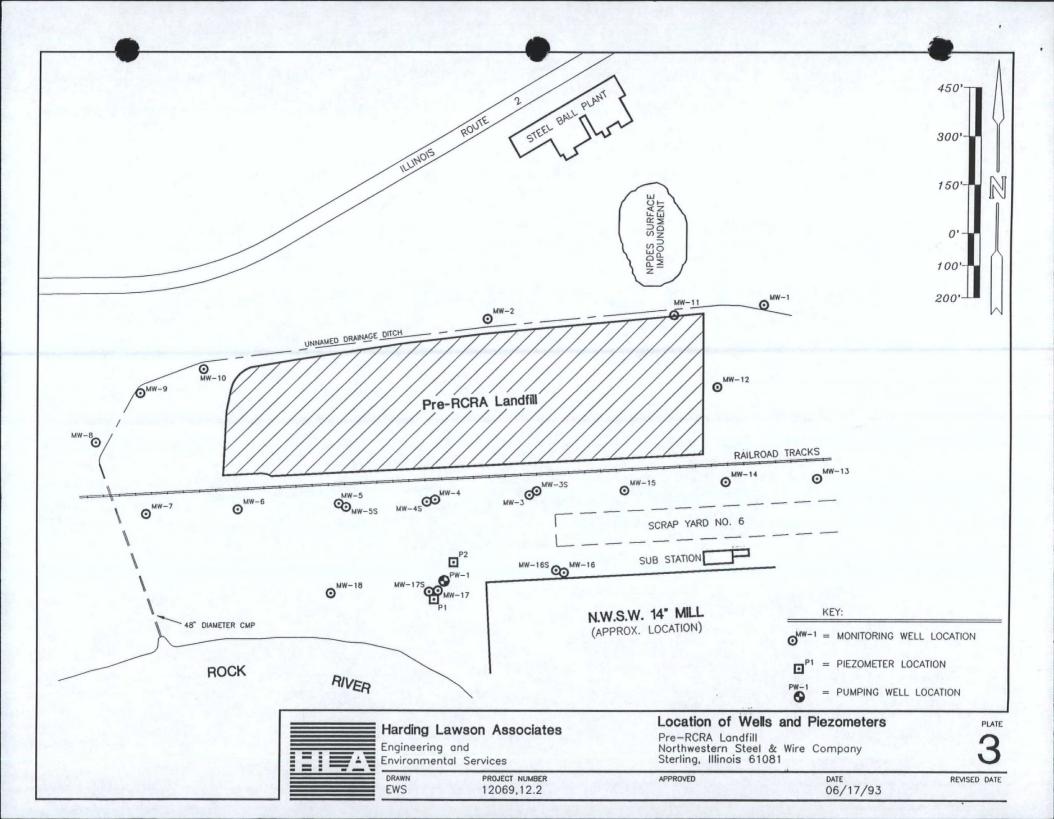
cis-1, 2 DCE Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.																	97	
5/13-14/99		<5	16	27	19	<5	100	<5			20	<5		11.5	<5	33	24	5.6
11/11/1999			17	11	25	Yan No.					7.4					65	38	
5/16-17/00		<2	5	5	19	<2		<2			15	<2			5	28	12	<2
11/14/2000			<2	6	16						60					35	15	all opening
02/06/2001						Stories.										37		
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^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit







January 15, 2001

Illinois Environmental Protection Agency Bureau of Land Planning and Reporting Section - #24 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

RE: ILD 005 263 157

Site #195 05 00007

Dear Sirs:

As required by Title 35, Subpart G, Chapter I, Subchapter A, Section 724.198, please find three (3) copies of the results of the semi-annual groundwater sampling at our RCRA and pre-RCRA landfills on November 13-14, 2000. The pre-RCRA wells are identified by designations G101 through G118, while the RCRA wells are identified as G121 through G130. The pH at our RCRA landfill well G-130 has returned to slightly higher levels at 9.28. We will continue to watch this well since recent pH results have indicated higher than normal historical values. The vinyl chloride level at our G117 was 17 ug/L, which exceeds the permitted level of 14 ug/L. This well will be resampled to confirm the exceedance. If the resample exceeds 14 ug/L, the Agency will be contacted to discuss implementation of contingency measures.

If you have any questions, please feel free to contact me at extension 2451.

Respectfully Submitted,

David E. Long

Environmental Manager

Enclosures

CERTIFIED MAIL - RETURN RECEIPT REQUESTED # 7099 3220 0010 5950 0493

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS CODE CODE

Page 1 of 2

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pH (unfiltered units)	0 0 4 0 0		-	-	7 . 0 2
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DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9		200		1 4 . 2 6

ncy is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required.

do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

Page 2 of 2

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CO. Whiteside

19 22

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

DATE COLLECTED

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cis-1,2-Dichloroethylene	7 30	7	0	9	3	35	36	< 37	38 2 47
Vinyl Chloride	3	9	1	7	5	_	_	_	58
	_	_	_	_	_	_	_	_	
	_	_	_	_	_	_	_	_	
	-	_	_	_	_	_	_	_	
	-	_	_	_	_	_	_	_	
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All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

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This pack is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Fail to do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

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Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB ____1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION A REQUIRED UNIT OF MEASURI		1	STOR	BER		Rem	Rep	< or >	Value
cis-1,2-Dichloroethylene	7 30		7 0	9	3	35	36	-37	38 6 47
Vinyl Chloride	3		9 1	7	5	_	_	<u></u>	98
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		_						_	

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS
CODE CODE
L|P|C|S|M|0|1| A

RT DUE DATE 0 1 / 1 5 / 0

DEPTH TO WATER FM MEA PT (ft)

Page 1 of 2

RERT DUE DATE 0 1 / 1 5	0 1 y 41	FEDERAL	ID NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0	7	MONITOR (See instructions)	POINT NUM	BER G 1 0 5
REGION1 COW	niteside		DATE CO	LLECTED	$\frac{1}{23}\frac{1}{M}$ / $\frac{1}{2}\frac{4}{M}$ / $\frac{0}{28}$
FACILITY NAME Northwestern Steel & Wire	Company Pre-RCRA L	andfill			23 M D Y 29
	1				
FOR IEPA USE ONLY	E	BACKGROUND SA	MPLE (X)	TIN 54 (24:hr c	IE COLLECTED 0 9 : 2 5
LAB		JNABLE TO COLL	ECT SAMPLE		
DATE RECEIVED	1	See instructions) MONITOR POINT S	SAMPLED BY	3	inertial pump
42 M D Y 47		See instructions)	SAIVII EED DI	60	OTHER (Specify)
	SAMPLE	FIELD FILTERED	-INORGANICS	(X)	ORGANICS(X)
SAMPLE APPEARANCE					
6					102
COLLECTOR COMMENTS	3				
LAB COMMENTS					
RECORD CODE L P C S M 0 2	1	TRANS CODE	A (COLU	MNS 9-29 FRO	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS See Instr.	REPLICATE	OR >	VALUE
Q TEMP OF WATER (unfiltered F)	0 0 0 1	1 34 35	_	37 38	5 0
Q SPEC COND (unfiltered umhos)	0 0 0 9	4 _	_		_ 9 1 0
Q pH (unfiltered units)	0 0 4 0	0 _			7 . 0 5
Q ELEV OF GW SURF (ft ref MSL)	7 1 9 9	3 _	1 = 1		_ 6 1 5 . 3 0
Q DEPTH OF WATER (ft below LS)	7 2 0 1	9 _	-		1 2 . 0 6
A BTM WELL ELEV (ft ref MSL)	7 2 0 2	0 _			_ 5 7 8 . 7 2

This pacy is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure of do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

7 2 1 0 9

CHEMICAL ANALYSIS FORM

Page 2 of 2

A

IEPA/DLPC

RECORD CODE	L	Р	С	S	М	0	2	TRANS CODE
	1						7	

SITE INVENTORY NUMBER $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{18}$ MONITOR POINT NUMBER $\frac{G}{19}$ $\frac{1}{22}$

CO. Whiteside DATE COLLECTED 1 1 1 / 1 4 / 0 0 1 23 M 1 D 4 / V 28

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME LAB 1

CONSTITUENT DESCRIPTION AND	STORET	Rem	Rep	< or	Value
REQUIRED UNIT OF MEASURE cis-1,2-Dichloroethylene	7 7 0 9 3 30 7 0 9 3	35	36	> 37	38 1 _ 6 47
Vinyl Chloride	3 9 1 7 5	_	_	_	1 5
		_	_	_	
		_	_	_	
		_	_	_	
		_	_	_	
		_	_		
		_	_	_	
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		_	_	_	
		_	_	_	
		_		_	
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			_	_	
			_	_	
		_	_	_	
		_	_	_	
		_	_	_	

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS CODE CODE

Page 1 of 2

L	PCSMO1 A				
R	RT DUE DATE 0 1 / 1 5 /	0 1 1 x 41	FEDERAL ID NUMB	ER	
SI	TE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7	MON (See instr	IITOR POINT	NUMBER <u>G 1 1 1 1 M 58</u>
RE	GION 1 CO. White			E COLLECTE	
FA	CILITY NAME Northwestern Steel & Wire C	ompany Pre-RCRA Landfil			23 M D Y 28
FC	R IEPA USE ONLY	BACK	GROUND SAMPLE (X	54	_TIME COLLECTED
LA	B	UNAB (See instruct	LE TO COLLECT SAM	PLE	
DA	TE RECEIVED	MONI'	TOR POINT SAMPLED	BY A 60	OTHER (Specify)
		SAMPLE FIEL	D FILTERED-INORGA	NICS (X)	ORGANICS(X)
	SAMPLE APPEARANCE				
	COLLECTOR COMMENTS				102
	LAB COMMENTS				142
RE	CORD CODE L P C S M 0 2	т	RANS CODE A	COLUMNS 9-29	FROM ABOVE)
	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS REPLICAT	TE OR	VALUE
Q	TEMP OF WATER (unfiltered F)	$\frac{0}{30} \frac{0}{0} \frac{0}{0} \frac{1}{1} \frac{1}{34}$	35	37	5 4
Q	SPEC COND (unfiltered umhos)	0 0 0 9 4		_	_ 1 0 1 0
Q	pH (unfiltered units)	0 0 4 0 0			7 . 0 1
Q	ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3			6 1 7 . 4 9
Q	DEPTH OF WATER (ft below LS)	7 2 0 1 9		_	3 . 5 7
А	BTM WELL ELEV (ft ref MSL)	7 2 0 2 0			6_0_6 . 9_2
Q	DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9			5 . 7 2

pcy is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

Page 2 of 2

IEPA/DLPC

RECORD CODE	L	Р	С	S	М	0	2	TRANS CODE	A
	1						/		8

SITE INVENTORY NUMBER $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{18}$ MONITOR POINT NUMBER $\frac{G}{19}$ $\frac{1}{12}$ $\frac{1}{22}$

CO. Whiteside DATE COLLECTED 1 1 1 / 1 4 / 0 0 v 28

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

				IVII I	C. C.	
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND	STORE		Rem	Rep	< or	Value
REQUIRED UNIT OF MEASURE	NUMBER	3			>	
cis-1,2-Dichloroethylene	7 7 0 9	9 3	35	36	37	38 — — — <u>6</u> <u>0</u> · — — —
Vinyl Chloride	3 9 1 7	5	_	_	<u><</u>	5
			_	_	_	
			_	_	_	
			_	_		
			_	_	-	
			_		-	
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			_	_	_	
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			_	-	-	
	1		_	-	-	
			_	_	-	
			_	-	-	
			_	_	-	
			_	_	_	

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-848, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS

Page 1 of 2

CODE CODE L P C S M O 1 A RT DUE DATE 0 1 / 1 5 /	0 1 Y 41	FEDERAL ID NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7	MONIT (See instruction	OR POINT NU	JMBER G 1 1 6 58
REGION 1 CO. Whit	reside	DATE	COLLECTED	1 1 / 1 4 / 0 0
FACILITY NAME Northwestern Steel & Wire C	Company Pre-RCRA Landfi	II		23 M D Y 28
FOR IEPA USE ONLY	BACF	(GROUND SAMPLE (X)		IME COLLECTED 0 8 : 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LAB	UNA!	BLE TO COLLECT SAMPL	.E	
DATE RECEIVED	MON (See instru	ITOR POINT SAMPLED B	Y 3	inertial pump OTHER (Specify)
	SAMPLE FIE	LD FILTERED-INORGANI	CS (X)	ORGANICS(X)
COLLECTOR COMMENTS TOS LAB COMMENTS TES TES TES TES TECORD CODE L P C S M 0 2		RANS CODE A (CO		102
1	MALE SAME SAME	8		
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS REPLICATE See Instr.	OR >	VALUE
Q TEMP OF WATER (unfiltered F)	$\frac{0}{30} \frac{0}{0} \frac{1}{0} \frac{1}{34}$	35	37 3	<u> </u>
Q SPEC COND (unfiltered umhos)	0 0 0 9 4			8 2 0
Q pH (unfiltered units)	0 0 4 0 0			
Q ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3			6 1 2 . 6 9
Q DEPTH OF WATER (ft below LS)	7 2 0 1 9			1 4 . 2 3
A BTM WELL ELEV (ft ref MSL)	7 2 0 2 0			5 7 8 . 5 7
Q DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9			1 3 . 9 1

pcy is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failb. To do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

Page 2 of 2

IEPA/DLPC

RECO	ORD CODE	L P C S M O 2	TRANS CODE A
SITE	INVENTORY NUMBER	1 9 5 0 5 0 0 0 7 18	MONITOR POINT NUMBER $\frac{G}{19} = \frac{1}{1} = \frac{6}{22}$
co.	Whiteside		DATE COLLECTED 1 1 / 1 4 / 0 0
	Northwestern Steel & W	ire Company Pre-RCRA Landfill	LAR 1

LAB MEASUREMENTS			<		
CONSTITUENT DESCRIPTION AND	STORET	Rem Rep	or	Value	
REQUIRED UNIT OF MEASURE	NUMBER		>		
cis-1,2-Dichloroethylene	7 7 0 9 3			3 5	
	30 34	35 38	37 30		
Vinyl Chloride	3 9 1 7 5			1 7 .	
			_ -		
	,				
					5.49
			_ _		
			1 <u>2 1</u> 2	Estimate follows	ALTERNATION.
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			447 344		
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The state of the s					

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS
CODE CODE

L P C S M 0 1 A

RT DUE DATE 0 1 / 1 5 / 0 1

Page 1 of 2

RT DUE DATE 0 1 / 1 5 /	0 1 v 41	FEDERAL ID NUMBER		
SITE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7	MONIT (See instruction	OR POINT NUM	BER G 1 1 7 7 19 19 19 19 19 19 19 19 19 19 19 19 19
REGION1 CO. Whi	teside		COLLECTED	1 1 / 1 4 / 0 0
FACILITY NAME Northwestern Steel & Wire	Company Pre-RCRA Landfi	II		23 M D Y 28
FOR IEPA USE ONLY	BACI	KGROUND SAMPLE (X)	TIM	DE COLLECTED 0 8 : 2 0 M 58
LAB	UNA!	BLE TO COLLECT SAMPL	.E	
DATE RECEIVED	MON (See instru	ITOR POINT SAMPLED B	Y3	inertial pump
	SAMPLE FIE	LD FILTERED-INORGANI	CS (X)	ORGANICS(X)
SAMPLE APPEARANCE				102
COLLECTOR COMMENTS				
LAB COMMENTS				142 — — — — — — — — — — — — — — — — — — —
RECORD CODE L P C S M 0 2	J	RANS CODE A (CO	LUMNS 9-29 FRO	M ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS REPLICATE See Instr.	< OR >	VALUE
Q TEMP OF WATER (unfiltered F)	$\frac{0}{30} \frac{0}{0} \frac{0}{0} \frac{1}{34} \frac{1}{34}$	35	37 38	5 3 47
Q SPEC COND (unfiltered umhos)	0 0 0 9 4			_ 9 3 0
Q pH (unfiltered units)	0 0 4 0 0			6 . 7 6
Q ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3			_ 6 1 2 . 5 5
Q DEPTH OF WATER (ft below LS)	7 2 0 1 9		5-5-	1 2 . 8 6
A BTM WELL ELEV (ft ref MSL)	7 2 0 2 0			_ 5 9 0 . 7 9
Q DEPTH TO WATER FM MEA PT (ft)	7 2 1 0 9			1 2 . 4 2

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CHEMICAL ANALYSIS FORM

Page 2 of 2

IEPA/DLPC

RECO	ORD CODE	L P C S M 0 2	TRANS CODE A
SITE	INVENTORY NUMBER	1 9 5 0 5 0 0 0 7	MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{-} \frac{1}{22}$
CO.	Whiteside		DATE COLLECTED $\frac{1}{\frac{23}{23}}$ $\frac{1}{M}$ $\frac{1}{Q}$ $\frac{4}{Q}$ /
	Northwestern Steel & W	re Company Pre-RCRA Landfill FACILITY NAME	LAB 1

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE		NUI	ORE MBE	R	Rem	Rep	< or >	Value
	cis-1,2-Dichloroethylene	7 30	7	0 -	9 3	35	36	37	39 — — — <u>1 5</u> · — — — 47
	Vinyl Chloride	3	9	1	7 5	-	_	_	98
		-	_			_	_	_	
		-	_	_	_	_	_	_	
		-	_			-	_	_	
		-	_			_	_	_	
		-	_			_	_	_	
-		-	_	_		_	_	_	
		+	_			_	_	_	
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		-	_			_	_	_	
		-	_	_		-	-	_	

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P.O. Box 9071 • Peoria, IL 61612-9071 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Report Cover Page

Northwestern Steel & Wire Co. 121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 14-Nov-00 Date Reported: 28-Nov-00

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 00112188

This report includes information regarding the following described samples as received by the laboratory and is only valid for the parameters tested. This report contains 8 results page(s) not including the cover page(s).

***************************************			***************************************	
Sample No.	Client ID	Site	Locator	Tests/Services
00112188-1	SEMIANNUAL	PRE-RCRA LF	MW 3	
				Volatiles, GC/MS
00112188-2	SEMIANNUAL	PRE-RCRA LF	MW 4	
				Volatiles, GC/MS
00112188-3	S SEMIANNUAL	PRE-RCRA LF	MW 5	
				Volatiles, GC/MS
00112188-4	SEMIANNUAL	PRE-RCRA LF	MW 11	
				Volatiles, GC/MS
00112188-5	SEMIANNUAL	PRE-RCRA LF	MW 16	
				Volatiles, GC/MS
00112188-6	SEMIANNUAL	PRE-RCRA LF	MW 17	
				Volatiles, GC/MS
0 12188-7	SEMIANNUAL	PRE-RCRA LF	FIELD DUPLICATE	
				Volatiles, GC/MS
00112188-8	SEMIANNUAL	PRE-RCRA LF	FIELD BLANK	
				Volatiles, GC/MS

Certified by:

Kurt C. Stepping, Director of Client Services

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State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100230

State of Illinois Bacteriological Analysis in Drinking Water Certified Lab Registry No. 17533

State of Arkansas Certified Wastewater and Hazardous Waste Lab

State of Indiana Certified Drinking Water Lab No. C-IL-04

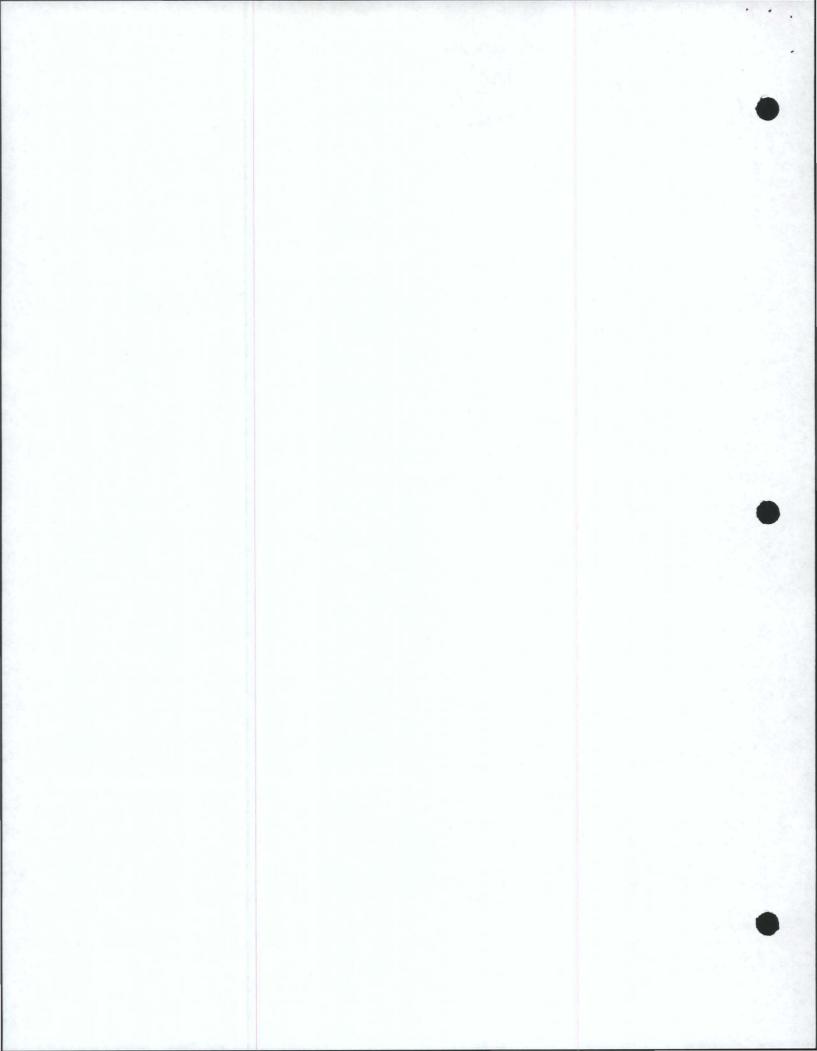
tate of Iowa Certified Wastewater Lab No. 240

American Industrial Hygiene Association Bulk/Air Asbestos Proficiency Program Lab ID No. 101206

State of North Dakota Wastewater and Hazardous Waste CertifiedLab No. R-094

State of Wisconsin Certified Wastewater and Hazardous Waste Lab ID No. 998294430

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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 14-Nov-00 Date Reported: 28-Nov-00

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 00112188

Sample No: 00112188-1 Client ID: SEMIANNUAL Site: PRE-RCRA LF

Locator: MW 3

Collect Date: 14-NOV-00 10:30

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B					
Vinyl chloride		58.	ug/l	16-Nov-00 07:36	TJP
cis-1,2-Dichloroethene	<	2.0	ug/l	16-Nov-00 07:36	TJP



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 14-Nov-00

Date Reported: 28-Nov-00 PO #: H2 00 -63878

Sterling, IL 61081

PDC Cust. # : 275706

Attn: Mr. Dave Long

Login No. 00112188

Sample No: 00112188-2 Client ID:

SEMIANNUAL

Locator: MW 4

Site: PRE-RCRA LF

Collect Date: 14-NOV-00 09:55

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
	98.	ug/l	16-Nov-00 07:36	TJP
cis-1,2-Dichloroethene	6.0	ug/l	16-Nov-00 07:36	TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 14-Nov-00 Date Reported: 28-Nov-00

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 00112188

Sample No: 00112188-3
Client ID: SEMIANNUAL
Site: PRE-RCRA LF
Locator: MW 5

Collect Date: 14-NOV-00 09:25

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
Vinyl chloride	15.	ug/l	16-Nov-00 07:36	TJP
cis-1,2-Dichloroethene	16.	ug/l	16-Nov-00 07:36	TJP



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 14-Nov-00

Date Reported: 28-Nov-00 PO #: H2 00 -63878

Sterling, IL 61081

PDC Cust. # : 275706

Login No. 00112188

Attn: Mr. Dave Long

Sample No: 00112188-4 Client ID: SEMIANNUAL

Site: PRE-RCRA LF Locator: MW 11

Collect Date: 14-NOV-00 10:50

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B Vinyl chloride	<	5.0	ug/l	16-Nov-00 07:3	6 TJP
cis-1,2-Dichloroethene		60.	ug/l	16-Nov-00 07:3	6 TJP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 14-Nov-00 Date Reported: 28-Nov-00

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 00112188

Sample No: 00112188-5

Client ID: SEMIANNUAL Site: PRE-RCRA LF

Locator: MW 16

Collect Date: 14-NOV-00 08:55

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
Vinyl chloride	17.	ug/l	16-Nov-00 07:36	TJP
cis-1,2-Dichloroethene	35.	ug/l	16-Nov-00 07:36	TJP

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Laboratory Results

Northwestern Steel & Wire Co.

Date Received: 14-Nov-00

121 Wallace Street

Date Reported: 28-Nov-00

Sterling, IL 61081

PO #: H2 00 -63878 PDC Cust. # : 275706

Attn: Mr. Dave Long

Login No. 00112188

Sample No: 00112188-6

Client ID: SEMIANNUAL

Locator: MW 17

Site: PRE-RCRA LF

Collect Date: 14-NOV-00 08:20

Parameter	Result	Units	Date By	7
SW-846 Method 8260B				
Vinyl chloride	98.	ug/l	16-Nov-00 07:36 TJ	ſΡ
cis-1,2-Dichloroethene	15.	ug/l	16-Nov-00 07:36 TJ	ΓP



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 14-Nov-00 Date Reported: 28-Nov-00

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 00112188

Sample No: 00112188-7

Client ID: SEMIANNUAL
Site: PRE-RCRA LF
Locator: FIELD DUPLICATE Collect Date: 14-NOV-00 08:25

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B Vinyl chloride	94.	ug/l	16-Nov-00 07:36	TJP
cis-1,2-Dichloroethene	15.	ug/l	16-Nov-00 07:36	TJP



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 14-Nov-00

Date Reported: 28-Nov-00

PO #: H2 00 -63878 PDC Cust. # : 275706

Sterling, IL 61081

Login No. 00112188

Attn: Mr. Dave Long

Client ID: SEMIANNUAL

Sample No: 00112188-8

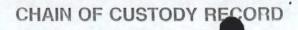
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PDC LABORATORIES, INC. 2231 Wi ALTORFER DRIVE PEORIA, IL 61615

PHONE # 309-692-9688 FAX # 309-692-9689



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GROUND WATER FIELD SURVEY FORM

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P.O. Box 9071 • Peoria, IL 61612-9071 309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Report Cover Page

Northwestern Steel & Wire Co. 121 Wallace Street

121 Wallace Dilect

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 06-Feb-01 Date Reported: 08-Feb-01

PO #: H2 00 -63878 PDC Cust. # : 275706

Login No. 01021469

This report includes information regarding the following described samples as received by the laboratory and is only valid for the parameters tested.

This report contains 1 results page(s) not including the cover page(s)

This report contains 1 results page(s) not including the cover page(s).

Sample No. Client ID Site Locator Tests/Services

01021469-1

GROUND WATER

MW-116

RESAMPLE

Volatiles, GC/MS

Certified by:

Kurt C. Stepping, Director of Client Services

PDC Laboratories participates in the following laboratory accreditation/certification and proficiency programs. Endorsement by the Federal or State Government or their agencies is not implied.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100230

State of Illinois Bacteriological Analysis in Drinking Water Certified Lab Registry No. 17533

State of Arkansas Certified Wastewater and Hazardous Waste Lab

State of Indiana Certified Drinking Water Lab No. C-IL-04

te of Iowa Certified Wastewater Lab No. 240

American Industrial Hygiene Association Bulk/Air Asbestos Proficiency Program Lab ID No. 101206 State of North Dakota Wastewater and Hazardous Waste CertifiedLab No. R-094

State of Wisconsin Certified Wastewater and Hazardous Waste Lab ID No. 998294430

This report shall not be reproduced, except in full, without the written approval of the laboratory.



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 06-Feb-01 Date Reported: 08-Feb-01

PO #: H2 00 -63878

Sterling, IL 61081

Login No. 01021469

Attn: Mr. Dave Long

Sample No: 01021469-1 Client ID: GROUND WATER

Site: MW-116 Locator: RESAMPLE

Collect Date: 06-FEB-01 13:40

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PHONE # 309-692-9688 FAX # 309-692-9689



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GROUND WATER FIELD SURVEY FORM

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2231 WEST ALTORFER DRIVE PEOP IL 61615

PHONE # 309-692-9688 FAX # 309-692-9689



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PAGE ____OF ___



October 3, 2000

Illinois Environmental Protection Agency Bureau of Land Planning and Reporting Section # 24 1021 North Grand Avenue East P. O. Box 19276 Springfield, IL 62794-9276

RE: Northwestern Steel and Wire Co.

ILD 005 263 157

RCRA Part B Permit # B – 33R

Dear Sirs:

Northwestern Steel and Wire Company (NWSW) hereby submits the semi-annual progress report to IEPA for the Corrective Measures Implementation (CMI) for NWSW's pre-RCRA landfill under the renewed RCRA permit # B-33R. This progress report covers the period from March 22, 2000 through September 22, 2000. The preparation of the CMI was required by the Part B permit modification issued by the United States Environmental Protection Agency on March 22, 1993. Previous progress reports were submitted only to USEPA. With the renewal of NWSW's Part B permit, this and future progress reports are being sent to IEPA and copied to USEPA.

Please contact me at extension 2451 if you have any questions regarding this submission.

Very truly yours,

David E. Long

Environmental Manager

Enclosures

cc. Mr. Gale Hruska, USEPA Region V

CERTIFIED MAIL -- RETURN RECEIPT REQUESTED # 7099 3220 0010 5949 8622

Northwestern Steel and Wire Company

Pre-RCRA Landfill
Corrective Measures Implementation
Semi-Annual Progress Report

March 22, 2000 through September 22, 2000

October 3, 2000

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- 1.1 History of the Pre-RCRA Landfill
- 1.2 Description of the Selected CMI Remedy

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- 2.1 Prevention of Unauthorized Disturbance
- 2.2 Groundwater Sampling Procedures
- 2.3 Groundwater Sampling Results

3.0 PROBLEMS ENCOUNTERED

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5.0 ACTIVITIES FOR THE NEXT REPORTING PERIOD

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- 5.2 Schedule

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7.0 COMMUNITY RELATIONS ACTIVITIES

7.1 Status of the Community Relations Objective

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1.0 INTRODUCTION

This semi-annual progress report the is the third progress report for the renewed RCRA Part B permit for Northwestern Steel and Wire Company (NWSW), Sterling, Illinois. This report documents the Corrective Measures Implementation (CMI) being conducted on the pre-RCRA landfill located at the NWSW facility. The report covers the period of March 22, 2000 through September 22, 2000. The CMI is being conducted in accordance with the approved CMI operation of the corrective measures selected to protect human health and the environment. The CMI work plan contains the procedures necessary to monitor the performance of the corrective measures implemented at the pre-RCRA landfill.

1.1 History of the Pre-RCRA Landfill

The landfill is located approximately 500 feet north of the Rock River (Figure 1) and covers approximately 13.5 acres and is approximately eight (8) to ten (10) feet deep. Solid waste was disposed in the pre-RCRA landfill beginning in 1974. The waste disposed in the pre-RCRA landfill consisted of slag, brick, construction debris, and two sludges generated by on-site pollution control systems. The pre-RCRA landfill was closed in 1980 and a new RCRA landfill opened to receive the two sludges only. This new landfill received a Part B permit for the disposal of these two sludges on November 4, 1987. The Part B permit was subsequently renewed for ten years. The new permit was issued on March 10, 1999 with an effective date of April 14, 1999.

One condition of the initial RCRA landfill permit required a RCRA Facility Investigation (RFI) of the pre-RCRA landfill to determine if any releases from the landfill had occurred. The RFI was conducted in phases and determined that trichloroethylene (TCE), cis 1,2-dichloroethylene (DCE), and vinyl chloride (VC) were present in the groundwater beneath and downgradient from the landfill at elevated concentrations. Based on the findings of the RFI, the United States Environmental Protection Agency (USEPA) required that NWSW conduct a Corrective Measures Study (CMS) to

determine the best corrective measure alternative to achieve an acceptable level of risk within the exposed population. The CMS consisted of three distinct tasks: 1) additional field tests, 2) a risk assessment, and 3) an evaluation of potential corrective measures and recommendation of the alternative(s) that would result in an acceptable risk to human health.

1.2 Description of the Selected CMI Remedy

The various remediation technologies were evaluated as to their potential applicability to the pre-RCRA Landfill situation. This evaluation included no action, limited action, source control, groundwater remediation, and a combination of source control and groundwater remediation. The risk assessment showed that the present situation results in an acceptable level of risk to human health and the environment. Therefore the no action and limited action alternatives are acceptable means of complying with the goals of the CMS. Both result in the protection of human health. The limited action alternative, which is incorporated in the Part B permit modification effective March 22, 1993, offers the additional benefit of on-going monitoring which will provide for the detection of changes in concentrations of the compounds of concern (TCE, DCE and VC). The renewed permit removed the testing requirement for TCE, since TCE has not been detected in any of the monitoring wells for over eight years.

2.0 CMI OPERATIONS

The corrective measure design for the pre-RCRA landfill consists of 1) a system to prevent unauthorized disturbance of the soil and fill in the pre-RCRA landfill, and 2) a system of continued groundwater monitoring until the landfill meets the cleanup objectives contained in the Part B permit. These corrective measures, which have not been altered since the last semi-annual progress report, are described below.

2.1 Prevention of Unauthorized Disturbance

Unauthorized disturbance of the soil and fill in the pre-RCRA landfill are prevented by NWSW's existing facility security system. NWSW has a facility security system in place to prevent access by unauthorized personnel to the pre-RCRA landfill. NWSW employs 14 full-time guards plus 4 guard sergeants. One sergeant supervises each eight-hour shift. The sergeant is responsible for conducting two complete inspections of the entire plant perimeter each shift to assure unauthorized personnel are not present. The pre-RCRA landfill area is included in these inspections.

A security fence with no trespassing signs posted at various places along the fence surrounds the facility site occupied by NWSW. Access to the facility is gained through secured gates; therefore preventing unauthorized personnel from entering the facility. The main access gate to the facility is equipped with a guardhouse, which is occupied at all times. A gate located on the western edge of the facility, adjacent to the non-hazardous waste landfill, remains closed with access available to authorized personnel only. Additional signs have been posted around the pre-RCRA landfill as needed.

2.2 Groundwater Sampling Procedures

The groundwater monitoring wells around the pre-RCRA landfill are shown in Figure 2. The renewed Part B permit has identified the monitoring wells with new letter/number designations as follows:

Previous ID number	New Designation
MW-1	G101
MW-2	G102
MW-3	G103
MW-4	G104
MW-5	G105
MW-6R(replaceme	nt well) R106
MW-7	G107
MW-8	G108

MW-9	G109
MW-10	G110
MW-11	G111
MW-12	G112
MW-13	G113
MW-14	G114
MW-15	G115
MW-16	G116
MW-17	G117
MW-18	G118

The renewed RCRA permit requires that monitoring wells G103, G104, R105, G111, G116 and G117 be sampled semi-annually in April-May and October-November, and that monitoring wells G102, G106, G108, G112, G115 and G 118 be sampled annually in April-May. Monitoring wells G103-4, R106, G111 and G116-7 delineate a Groundwater Management Zone (GMZ) at the site.

The first year of required quarterly sampling was completed with the May 10, 1994 sampling event. NWSW is presently in a semi-annual monitoring program.

On May 16-17, 2000 twelve monitoring wells were sampled, as is the annual requirement. The results of this sampling are being submitted with this progress report.

According to Mrs. E. Kay Ingles of the Daily Analytical Laboratory (now PDC Laboratories), the monitoring wells were sampled according to the following procedures.

Static water levels and well depth were measured in each well prior to sampling. Water levels were measured three consecutive times to the nearest 0.01 foot using a steel tape or electrical water level sensor, and recorded in the field notebook. Prior to collecting groundwater samples for chemical analysis, water standing in the well casing and filter pack was purged so that the sample would be obtained from water representative of

groundwater in the aquifer. A minimum of three well casing volumes of water was removed using a bailer or an inertial pump, whichever was appropriate for the depth of the well. Purged water was monitored for pH and specific conductance. Purging was considered complete when a minimum of three well casing volumes had been purged and the pH and specific conductance parameters had stabilized. Purged groundwater was temporarily stored in dedicated plastic containers and pumped back into each monitoring well after completion of each sampling event.

Groundwater samples from each well were collected using a clean Teflon® bailer. Groundwater samples were carefully poured from the sampling bailer into pre-cleaned, laboratory-supplied glass VOA vials with Teflon® septum caps. The VOA vials were completely filled to eliminate air bubbles. Each groundwater sample was sealed and labeled using labels provided by the analytical laboratory. The sample identification for each sample was as follows:

- Site Identification (NWSW for Northwestern Steel and Wire)
- Monitoring Well Number (G1XX)
- Ground water sample number (GW1) increasing sequentially.

An example groundwater sample identification number is NWSW-G110-GW2, which indicates that this sample is the second collected at the Northwestern Steel and Wire site from monitoring well G110. Samples were placed on ice in a cooler for sample preservation. Water temperature, pH, Eh, and specific conductance measurements were measured and recorded in the field notebook at the time of sampling. Field measurement equipment were calibrated daily according to the manufacturer's recommendations.

As part of the quality assurance program, one duplicate groundwater sample and one field equipment blank per sampling event was collected and submitted to the laboratory for contaminant analysis. In addition, a trip blank was submitted with each sample shipment and analyzed for VOCs. Samples were presented as described above and shipped to the analytical laboratory in a timely manner. Chain-of-custody forms for the samples were included in each shipment.

Groundwater monitoring and sampling equipment was decontaminated prior to use at each monitoring well using procedures discussed in Section 9.12 of the CMI to prevent the possibility of cross-contamination between monitoring wells. Care was taken to prevent the decontaminated well purging and sampling equipment from coming into contact with the ground surface.

When samples were received at the laboratory, sample containers were inspected for integrity, proper labeling, proper preservation, and properly completed chain of custody form(s). The samples were logged in by the laboratory and a unique laboratory sample number assigned to each sample. Laboratory sample numbers were entered into the laboratory's master logbook and used on sample laboratory sheets. Other pertinent information such as the date and time of sample receipt was also recorded. Samples were stored in secured refrigerators at the laboratory.

Groundwater samples were analyzed for VC and DCE. Detailed information on the analytical procedures such as potential interferences, precision and accuracy of the methodology, and method detection limits are identified in Test Methods for Evaluating Solid Waste, SW-846 (EPA, 1986). For each groundwater sampling episode, laboratory quality assurance/quality control (QA/QC) consisted of analyzing field blanks, field duplicates, and standard laboratory QA/QC samples. A complete laboratory analytical report from PDC Analytical Laboratories is provided as Appendix A.

2.3 Groundwater Sampling Results

During the May 16-17 sampling event, monitoring wells G102-5, R106, G108, G111-12 and G115-18 were sampled and analyzed for VC and DCE. Tables 1 and 2 summarize the results of the groundwater sampling conducted for the CMI Program.

The results presented in Table 1 show that for the twelve wells sampled on May 16-17, seven show concentrations below the VC detection level, four wells (G103, G104, G116 and G117) have lower VC concentrations than the last time these wells were sampled. The VC concentration at well G105 went up slightly. For this sampling event, the VC concentration in G104 was within the calibration range of the laboratory instrumentation. Consequently, no sample dilution prior to analysis was necessary as had been required once before. The VC concentrations did not exceed the maximum allowable permit levels for any of the wells.

Table 2 provides the analytical results for DCE during the most recent CMI Sampling. The May 16-17 results for the 12 monitoring wells sampled shows DCE levels below detection limit in five wells, an increase in DCE concentration from 7.4 and <5 to 15 and 5 ppm in wells G111 and G115 respectively, and a decrease in DCE concentration in five wells from previous sampling. The DCE concentration in G117 did not exceed the maximum allowable permit level of 97ug/L.

3.0 PROBLEMS ENCOUNTERED

No problems were encountered during the six months that are the subject of this report for the implementation of the CMI plan. Some heavy equipment activity occurred in the vicinity of the wells. Supervisors of heavy equipment in the area of the wells have been again warned of their presence.

4.0 PERSONNEL CHANGES

The project management organization remains the same as initially described in the CMI Work Plan including changes described in prior progress reports.

5.0 ACTIVITIES FOR THE NEXT REPORTING PERIOD

5.1 Description of Activities

The planned activities for the next reporting period include the continued operation and maintenance of the corrective measures implementation program as described in the CMI work plan. This will include periodic landfill inspections and maintenance. The groundwater sampling program and monitoring of the performance of the corrective measures implementation will also continue on a semi-annual basis in accordance with the CMI work plan.

5.2 Schedule

A schedule for future groundwater sampling and reporting requirements is provided in Figure 3.

6.0 TRIGGERING OF CONTINGENT CORRECTIVE MEASURES

Section III(G)(1)(c) of the permit establishes maximum allowable DCE and VC concentrations in monitoring wells G103-5, G111 and G116-17. If an individual maximum concentration is exceeded, then the contingent corrective measures may need to be implemented. As discussed in Section 2.3, Groundwater Sampling Results, none of the individual triggering concentrations for VC or DCE were exceeded. There has been no evidence of unauthorized disturbance of the pre-RCRA landfill soils or fill. Therefore, no contingent corrective measures have been triggered.

7.0 COMMUNITY RELATIONS ACTIVITIES

The Community Relations Plan (CRP) was prepared to guide community relations activities during the implementation of corrective measures at NWSW's pre-RCRA Landfill. The purposes of the CRP are to make available to the local community, information concerning the corrective measures actions, and to facilitate communication between NWSW and the community. During this period of the CMI, no citizens or

interested parties have contacted NWSW concerning the CMI operations at the pre-RCRA Landfill.

7.1 Status of the Community Relations Objectives

This section presents the status of the community relations objectives used during the implementation of the corrective measures to ensure that the community is included in the process. The following techniques were organized according to the objectives of the community relations program:

1. Objective: Provide Community with Information.

Technique: Establish Information Repository

<u>Purpose</u>: To provide site-specific information to the community.

Actions Taken: The information repository was established at the following

location:

Northwestern Steel and Wire Company

121 Wallace Street P.O. Box 618

Sterling, IL 61081-0618 Telephone: (815) 625-2500

2. Objective: Respond to Community Concerns and Needs that Arise During

the Corrective Measures Implementation.

Technique: Monitor Community Concerns.

<u>Purpose</u>: To continually assess and address community concerns throughout

the implementation of the corrective measures.

Action

Taken: NWSW has identified David E. Long, Environmental Manager, as

the contact person to whom citizens or groups can direct their written concerns and questions. NWSW has provided a telephone number for monitoring community concerns. The representative from NWSW is accessible by telephone 5 days a week, Monday through Friday, from 8:00 am to 5:00 p.m. at (815) 625-2500 ext.

2451.

3. Objective: Provide for Effective Management of the Community Relations

Program.

Technique: Management of Community Relations Program.

<u>Purpose</u>: To address community concerns that emerge during

the implementation of the corrective measures.

Action

<u>Taken</u>: No community concerns have emerged during this period of the

CMI. No comments or questions have been received during the

period covered by this progress report.

word/long/anrpt2

Table 1. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

Vinyl Chloride Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.			240	277	44						8					14	151	
5/13-14/99		<2	75	200	20	<2		<2			<2	<2	X 3		<2	<2	78	<2
11/11/99			140	87	13						12.					28	89	
5/16-17/00		<5	52	36	19	<5		<5			<5	<5			<5	11	62	<5
					7.05									SVE	W. C.			. 4.5

^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit

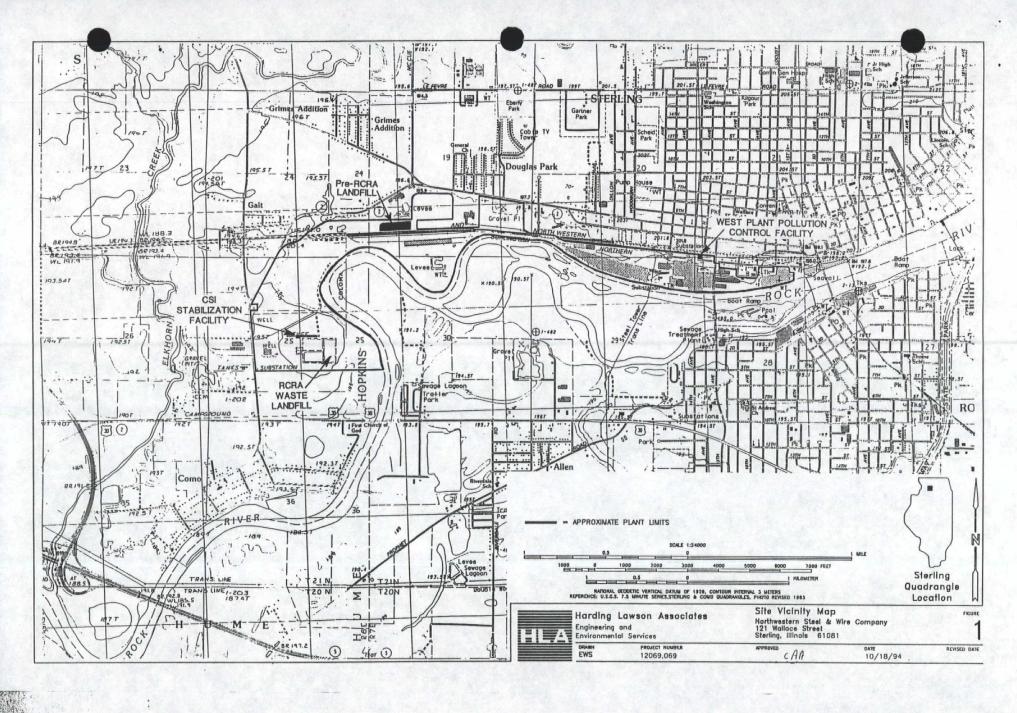
Table 2. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

cis-1, 2 DCE Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.																	97	
5/13-14/99		<5	16	27	19	<5		<5			20	<5			<5	33	24	5.6
11/11/99			17	11	25						7.4					65	38	
5/16-17/00	N. Park	<2	5	5	19	<2		<2			15	<2			5	28	12	<2

^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit



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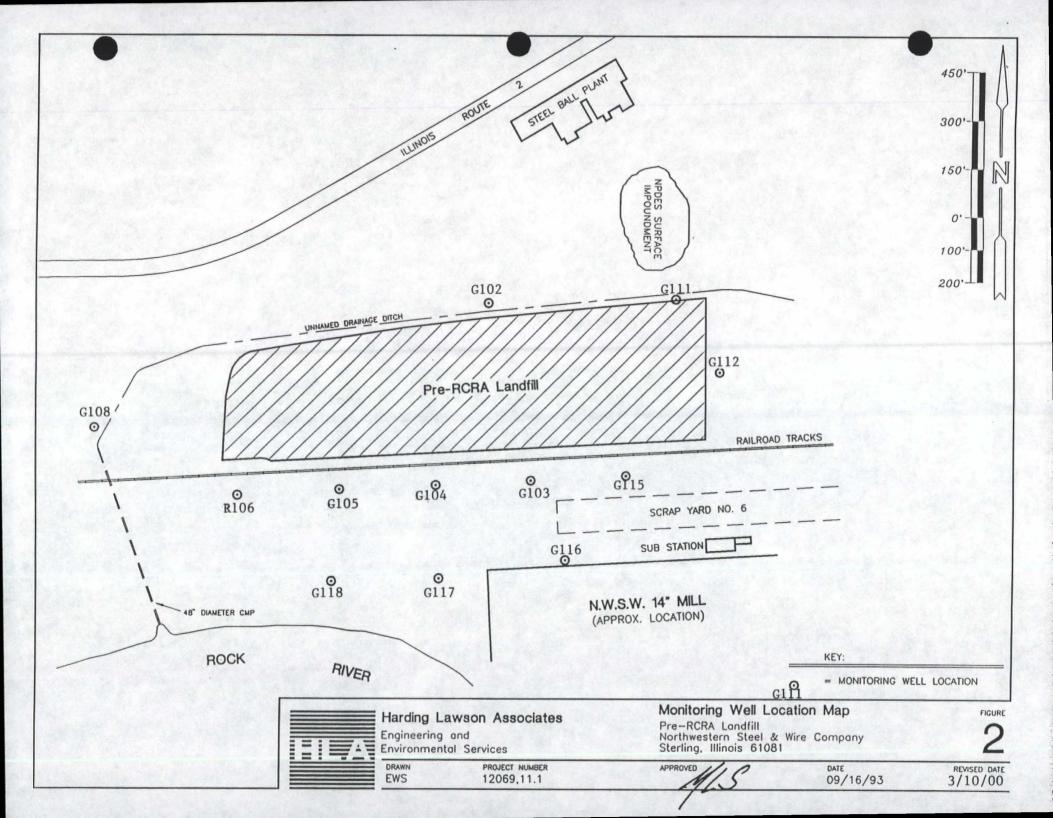


FIGURE 3

SCHEDULE FOR FUTURE CMI ACTIVITIES

GROUNDWATER SAMPLING

SEMI-ANNUAL, 6 WELLS

MID-NOVEMBER, 2000

CMI PROGRESS REPORT

APRIL, 2001

GROUNDWATER SAMPLING, ANNUAL, 12 WELLS

MID-MAY, 2001

CMI PROGRESS REPORT

OCTOBER, 2001



July 17, 2000

Illinois Environmental Protection Agency Bureau of Land Planning and Reporting Section # 24 1021 North Grand Avenue East P. O. Box 19276 Springfield, IL 62794-9276

RE: Northwestern Steel and Wire Co. ILD 005 263 157 RCRA Part B Permit # B – 33R

Dear Sirs:

Northwestern Steel and Wire Company (NWSW) hereby submits the semi-annual progress report to IEPA for the Corrective Measures Implementation (CMI) for NWSW's pre-RCRA landfill under the renewed RCRA permit # B-33R. This progress report covers the period from September 22, 1999 through March 22, 2000. The preparation of the CMI was required by the Part B permit modification issued by the United States Environmental Protection Agency on March 22, 1993. Previous progress reports were submitted only to USEPA. With the renewal of NWSW's Part B permit, this and future progress reports are being sent to IEPA and copied to USEPA.

Please contact me at extension 2451 if you have any questions regarding this submission.

Very truly yours,

David E. Long

Environmental Manager

Enclosures

cc. Mr. Gale Hruska, USEPA Region V

CERTIFIED MAIL -- RETURN RECEIPT REQUESTED # 7099 3220 0010 5983 8336 Northwestern Steel and Wire Company Corrective Measures Implementation Semi-Annual Progress Report September 22, 1999 through March 22, 2000

July 17, 2000

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- 1.2 Description of the Selected CMI Remedy

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- 2.2 Groundwater Sampling Procedures
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3.0 PROBLEMS ENCOUNTERED

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1.0 INTRODUCTION

This semi-annual progress report (the Report) is the second progress report for the renewed RCRA Part B permit for Northwestern Steel and Wire Company (NWSW), Sterling, Illinois. This report documents the Corrective Measures Implementation (CMI) being conducted on the pre-RCRA landfill located at the NWSW facility. The Report covers the period September 22, 1999 through March 22, 2000. The CMI is being conducted in accordance with the approved CMI operation of the corrective measures selected to protect human health and the environment. The CMI work plan contains the procedures necessary to monitor the performance of the corrective measures implemented at the pre-RCRA landfill.

1.1 History of the Pre-RCRA Landfill

The landfill is located approximately 500 feet north of the Rock River (Figure 1) and covers approximately 13.5 acres and is approximately eight to ten feet deep. Solid waste was disposed in the pre-RCRA landfill beginning in 1974. The waste disposed in the pre-RCRA landfill consisted of slag, brick, construction debris, and two sludges generated by on-site pollution control systems. The pre-RCRA landfill was closed in 1980 and a new RCRA landfill opened to receive the two sludges only. This new landfill received a Part B permit for the disposal of these two sludges on November 4, 1987. The permit was subsequently renewed for ten years. The new permit was issued on March 10, 1999, with an effective date of April 14, 1999.

One condition of the RCRA landfill permit required a RCRA Facility Investigation (RFI) of the pre-RCRA landfill to determine if any releases from the landfill had occurred. The RFI was conducted in phases and determined that trichloroethylene (TCE), cis 1,2-dichloroethylene (DCE), and vinyl chloride (VC) were present in the groundwater beneath and downgradient from the landfill at elevated concentrations. Based on the findings of the RFI, the United States Environmental Protection Agency (U.S. EPA) required that NWSW conduct a Corrective Measures Study (CMS) to determine the best

corrective measure alternative to achieve an acceptable level of risk within the exposed population. The CMS consisted of three distinct tasks: 1) additional field tests, 2) a risk assessment, and 3) an evaluation of potential corrective measures and recommendation of the alternative(s) that would result in an acceptable risk to human health.

1.2 Description of the Selected CMI Remedy

The various remediation technologies were evaluated as to their potential applicability to the pre-RCRA Landfill situation. This evaluation included no action, limited action, source control, groundwater remediation, and a combination of source control and groundwater remediation. The risk assessment showed that the present situation results in an acceptable level of risk to human health and the environment. Therefore the no action and limited action alternatives are acceptable means of complying with the goals of the CMS. Both result in the protection of human health. The limited action alternative, which is incorporated in the Part B permit modification effective March 22, 1993, offers the additional benefit of on-going monitoring which will provide for the detection of changes in concentrations of the compounds of concern (TCE, DCE and VC). The renewed permit removed the testing requirement for TCE, since TCE has not been detected in any of the monitoring wells in over eight years.

2.0 CMI OPERATIONS

The corrective measure design for the pre-RCRA landfill consists of 1) a system to prevent unauthorized disturbance of the soil and fill in the pre-RCRA landfill, and 2) a system of continued groundwater monitoring until the landfill meets the cleanup objectives contained in the Part B permit. These corrective measures, which have not been changed since the last semi-annual progress report, are described below.

2.1 Prevention of Unauthorized Disturbance

Unauthorized disturbance of the soil and fill in the pre-RCRA landfill are prevented by NWSW's existing facility security system. NWSW has a facility security system in place

to prevent access by unauthorized personnel to the pre-RCRA landfill. NWSW employs 14 full-time guards plus 4 guard sergeants and a security supervisor. One sergeant supervises each eight-hour shift. The sergeant is responsible for conducting two complete inspections of the entire plant perimeter each shift to assure unauthorized personnel are not present. The pre-RCRA landfill area is included in these inspections.

A security fence with No Trespassing signs posted at various places along the fence surrounds the facility site occupied by NWSW. Access to the facility is gained through secured gates, therefore preventing unauthorized personnel from entering the facility. The main access gate to the facility is equipped with a guardhouse that is occupied at all times. A gate located on the western edge of the facility, adjacent to the non-hazardous waste landfill, remains closed and locked with access available only to authorized personnel. Additional signs have been posted around the pre-RCRA landfill as needed.

2.2 Groundwater Sampling Procedures

The groundwater monitoring wells around the pre-RCRA landfill are shown in Figure 2. The renewed Part B permit has identified the monitoring wells with new letter/number designations as follows:

Previous ID number	New ID number
MW-1	G101
MW-2	G102
MW-3	G103
MW-4	G104
MW-5	G105
MW-6	G106
MW-7	G107
MW-8	G108
MW-9	G109
MW-10	G110
MW-11	G111

MW-12	G112
MW-13	G113
MW-14	G114
MW-15	G115
MW-16	G116
MW-17	G117
MW-18	G118

The renewed RCRA permit requires that monitoring wells G103, G104, G105, G111, G116 and G117 be sampled semi-annually in April-May and October-November, and that monitoring wells G102, G106, G108, G112, G115 and G118 be sampled annually in April-May. Monitoring wells G103-5, G111 and G116-7 delineate a Groundwater Management Zone (GMZ) at the site.

On November 11, 1999, six monitoring wells were sampled, as is the semi-annual requirement. The results of this sampling are being submitted with this progress report. The first year of required quarterly sampling was completed with the May 10, 1994 sampling event. NWSW has now moved into the semi-annual monitoring program.

According to Mrs. E. Kay Ingles of the Daily Analytical Laboratory (now PDC Laboratories, Inc.) the monitoring well sampling procedure is as follows.

Static water levels and well depth were measured in each well prior to sampling. Water levels were measured three consecutive times to the nearest 0.01 foot using a steel tape or electrical water level sensor, and recorded in the field notebook. Prior to collecting groundwater samples for chemical analysis, water standing in the well casing and filter pack was purged so that the sample would be obtained from water representative of groundwater in the aquifer. A minimum of three well casing volumes of water was removed using a bailer or an inertial pump; whichever was appropriate for the depth of the well. Purged water was monitored for pH and specific conductance. Purging was considered complete when a minimum of three well casing volumes had been purged and

the pH and specific conductance parameters had stabilized. Purged groundwater was temporarily stored in dedicated plastic containers and pumped back into each monitoring well after completion of each sampling event.

Groundwater samples from each well were collected using a clean Teflon® bailer.

Groundwater samples were carefully poured from the sampling bailer into pre-cleaned, laboratory-supplied glass VOA vials with Teflon® septum caps. The VOA vials were completely filled to eliminate air bubbles. Each groundwater sample was sealed and labeled using labels provided by the analytical laboratory. The sample identification for each sample was as follows:

- Site Identification (NWSW for Northwestern Steel and Wire Co.)
- Monitoring Well Number (G1XX)
- Ground water sample number (GW1) increasing sequentially.

A possible groundwater sample identification number is NWSW-G110-GW2, which indicates that this sample is the second collected at the Northwestern Steel and Wire site from monitoring well G110. Samples were placed on ice in a cooler for sample preservation. Water temperature, pH, Eh, and specific conductance measurements were measured and recorded in the field notebook at the time of sampling. Field measurement equipment were calibrated daily according to the manufacturer's recommendations.

As part of the quality assurance program, one duplicate groundwater sample and one field equipment blank per sampling event was collected and submitted to the laboratory for contaminant analysis. In addition, a trip blank was submitted with each sample shipment and analyzed for VOCs. Samples were collected as described above and were shipped to the analytical laboratory in a timely manner. Chain-of-custody forms for the samples were included in each shipment.

Groundwater monitoring and sampling equipment was decontaminated prior to use at each monitoring well using procedures discussed in Section 9.12 of the CMI to prevent the possibility of cross-contamination between monitoring wells. Care was taken to

prevent the decontaminated well purging and sampling equipment from coming into contact with the ground surface.

When samples were received at the laboratory, sample containers were inspected for integrity, proper labeling, proper preservation, and properly completed chain of custody form(s). The samples were logged in by the laboratory and a unique laboratory sample number assigned to each sample. Laboratory sample numbers were entered into the laboratory's master logbook and used on sample laboratory sheets. Other pertinent information such as the date and time of sample receipt was also recorded. Samples were stored in secured refrigerators at the laboratory.

Groundwater samples were analyzed for VC and DCE. Detailed information on the analytical procedures such as potential interferences, precision and accuracy of the methodology, and method detection limits are identified in Test Methods for Evaluating Solid Waste, SW-846 (EPA, 1986). For each groundwater sampling episode, laboratory quality assurance/quality control (QA/QC) consisted of analyzing field blanks, field duplicates, and standard laboratory QA/QC samples. Analytical analyses from PDC Laboratories are provided as Appendix A.

2.3 Groundwater Sampling Results

During the November 11th sampling event, monitoring wells G103-5, G111, G116 and G117 were sampled and analyzed for VC and DCE. Tables 1 and 2 summarize the results of the groundwater sampling historical analysis conducted for the CMI Program under the latest RCRA permit.

The results presented in Table 1 show that for the 6 wells sampled, 4 wells (G103, G111, G116 and G 117) show an increase in VC concentration, and 2 wells (G104 and G 105) show a decrease in VC concentration from the levels recorded on May 13-14, 1999, which was the last time these wells were sampled. For this sampling event, the VC

concentration in MW-4 was within the calibration range of the laboratory instrumentation. Consequently, no sample dilution prior to analysis was necessary.

During a check of the sampling results for this report, the pre-RCRA results from the November 11th sampling were found to have been incorrectly entered on the IEPA Chemical Analysis Forms. Corrected forms were prepared and were sent to IEPA. After these changes were made, it was determined that the VC concentrations exceeded the maximum allowable permit levels for the two wells with the lowest VC permit limits. Well G111 had a concentration of 12 ug/L versus a permit limit of 8 ug/L, and G116 had a concentration of 28 ug/L versus a permit limit of 14 ug/L. These exceedances were noticed on July 3rd, 2000. PDC Laboratories was notified and the data was rechecked. In the meantime, the annual pre-RCRA sampling had been conducted in May and those results were compared with the November results. The test results from the May sampling event show lower overall concentrations of both VC and DCE, and all VC concentrations were below permit limits.

Table 2 provides the analytical results for DCE during the previous sampling period and the November 1999 and May 2000 sampling periods. The November 11, 1999 results for the 6 monitoring wells sampled shows an increase in DCE concentration in 4 wells (G103, G105, G116 and G117), and a decrease in DCE concentration in two wells (G104 and G111). The DCE concentration for well G117 did not exceed the maximum allowable permit level of 97 ug/L for any of the three sampling events.

3.0 PROBLEMS ENCOUNTERED

The only problem encountered during the six months that are the subject of this report for the implementation of the CMI plan was the VC concentrations in wells G111 and G116. IEPA Springfield and the regional Rockford office were notified of the VC results. Both offices felt that the retesting that would be necessary was already done with the May sampling, and, since concentrations were now below permit limits, no further steps were

required. The present position is to wait to see what results come from the November 2000 testing.

4.0 PERSONNEL CHANGES

The project management organization remains the same as initially described in the CMI Work Plan including changes described in prior progress reports.

5.0 ACTIVITIES FOR THE NEXT REPORTING PERIOD

5.1 Description of Activities

The planned activities for the next reporting period include the continued operation and maintenance of the corrective measures implementation program as described in the CMI work plan. This will include periodic landfill inspections and maintenance. The groundwater sampling program and monitoring of the performance of the corrective measures implementation will also continue in accordance with the CMI work plan.

5.2 Schedule

A schedule for future groundwater sampling and reporting requirements is provided in Figure 3.

6.0 TRIGGERING OF CONTINGENT CORRECTIVE MEASURES

Section III(G)(1)(c) of the permit establishes maximum allowable DCE and VC concentrations in monitoring wells G103-5, G111 and G116-7. If an individual maximum concentration is exceeded, then the contingent corrective measures must be implemented. As discussed in Section 2.3, Results of Groundwater Data, the individual triggering concentrations for VC were exceeded. However, since subsequent sampling shows a return to lower VC values, no additional steps will be taken until after the November 2000 sampling results are obtained. There has been no evidence of

unauthorized disturbance of the pre-RCRA landfill soils or fill. Therefore, no contingent corrective measures have been triggered.

7.0 COMMUNITY RELATIONS ACTIVITIES

The Community Relations Plan (CRP) was prepared to guide community relation activities during the implementation of corrective measures at NWSW's pre-RCRA landfill. The purposes of the CRP are to make available to the local community, information concerning the corrective measures actions, and to facilitate communication between NWSW and the community. During this period of the CMI no citizens or interested parties have contacted NWSW concerning the CMI operations at the pre-RCRA landfill.

7.1 Status of the Community Relations Objectives

This section presents the status of the community relations objectives used during the implementation of the corrective measures to ensure that the community is included in the process. The following techniques were organized according to the objectives of the community relations program:

1. Objective: Provide community with information.

Technique: Establish information repository

Purpose: To provide site-specific information to the community.

Actions

<u>Taken</u>: The information repository was established at the following

location:

Northwestern Steel and Wire Company 121 Wallace Street, P.O. Box 618

Sterling, IL 61081-0618 Telephone: (815) 625-2500

2. Objective: Respond to community concerns and needs that arise during

the Corrective Measures Implementation.

Technique: Monitor community concerns.

Purpose: To continually assess and address community concerns throughout

the implementation of the corrective measures.

Action

Taken: NWSW has identified David Long, Environmental Manager, as the

contact person to whom citizens or groups can direct their written concerns and questions. NWSW has provided a telephone number for monitoring community concerns. The representative from NWSW is accessible by telephone five days a week, Monday through Friday, from 8:00 a.m. to 5:00 p.m. at (815) 625-2500 ext.

2451.

3. Objective: Provide for effective management of the community relations

program.

<u>Technique</u>: Management of community relations program.

<u>Purpose</u>: To address community concerns that emerge as a result of

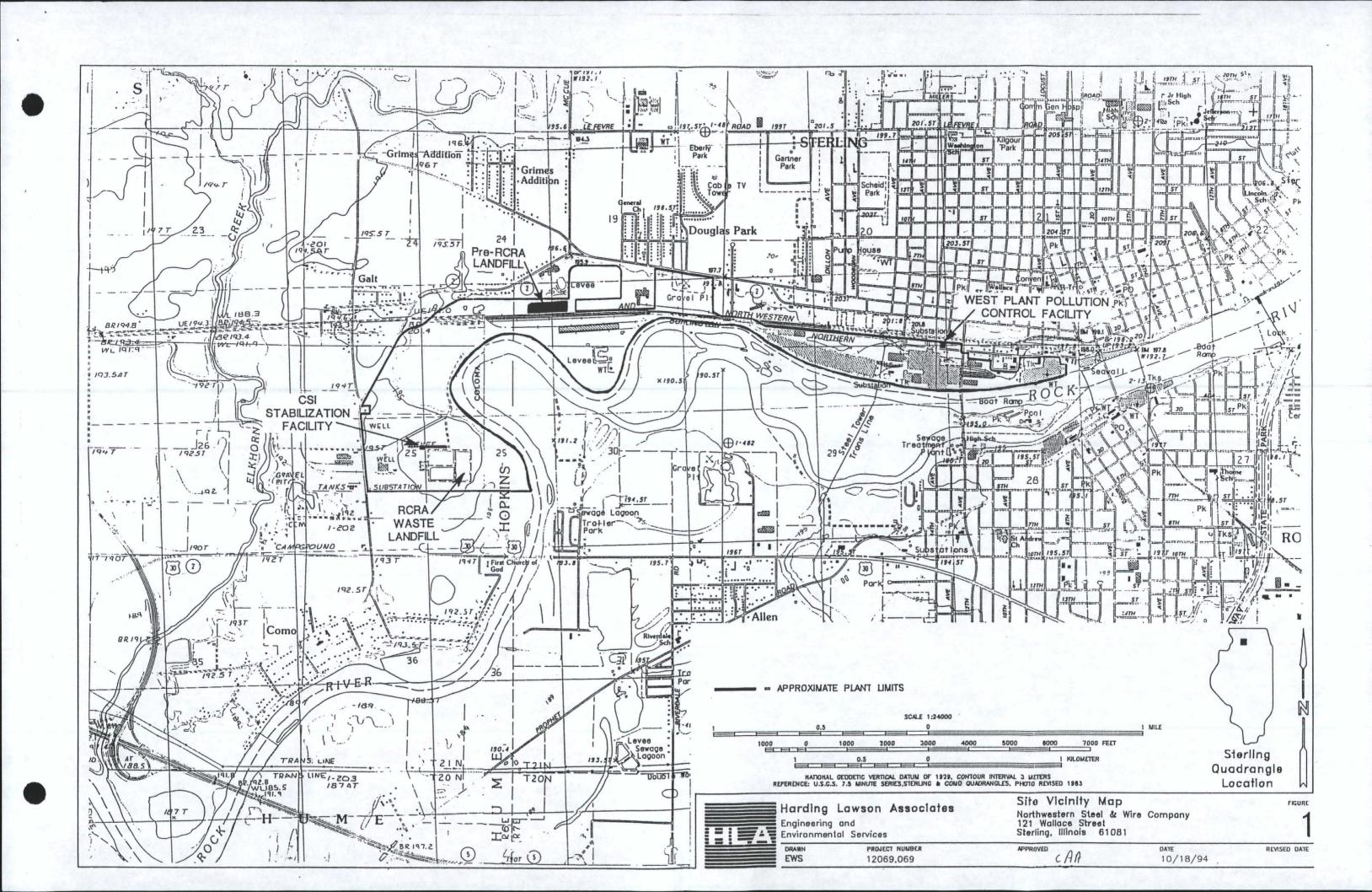
implementation of the corrective measures.

Action

Taken: No community concerns have emerged during this period of the

CMI. No comments or questions have been received during the

period covered by this progress report.



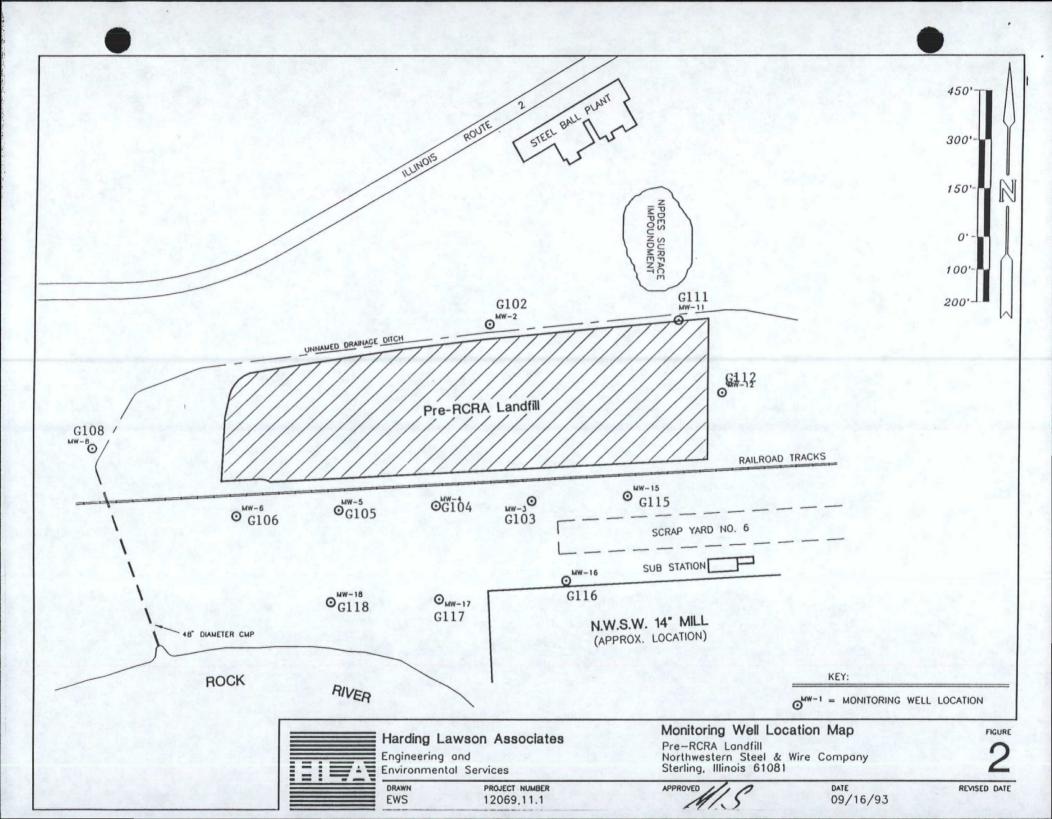


Table 1. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

Vinyl Chloride Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.			240	277	44						8					14	151	
5/13-14/99		<2	75	200	20	<2	the Tall	<2			<2	<2		4	<2	<2	78	<2
11/11/99			140	87	13						12.		NE PLAN			28	89	
5/16-17/00		<5	52	36	19	<5		<5			<5	<5			<5	11	62	<5
																	178	

^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit

Table 2. Northwestern Steel and Wire Company Pre-Rcra Landfill Groundwater Sampling

cis-1, 2 DCE Analytical Results, ug/L

Monitoring Well	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118
Permit Max.													4				97	
5/13-14/99		<5	16	27	19	<5		<5			20	<5			<5	33	24	5.6
11/11/99			17	11	25						7.4					65	38	
5/16-17/00		<2	5	5	19	<2		<2			15	<2			5	28	12	<2
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^{*} Permit Maximum is the maximum concentration allowed by Section III (G)(1)(c) of the permit.

^{**} Compound present below reporting limit

FIGURE 3

SCHEDULE FOR FUTURE CMI ACTIVITIES

GROUNDWATER SAMPLING, SEMI-ANNUAL, 12 WELLS

APRIL-MAY, 2000

CMI PROGRESS REPORT

SEPTEMBER-OCTOBER, 2000

GROUNDWATER SAMPLING SEMI-ANNUAL, 6 WELLS

OCTOBER-NOVEMBER, 2000

CMI PROGRESS REPORT

MARCH-APRIL, 2001

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

| RECORD | TRANS | CODE | CODE

Page 1 of

EPORT DUE DATE	0 1	1	15	1	0 0
	36 M				Y 41

					FEDERAL ID	NUMBER		
SITE	INVENTORY NUMBER 1 9 5 0	5 0 0 0	0	7		MONITOR (See instructions)	POINT N	IUMBER G 1 0 3 58
REG	ION R CO. Whites	side				DATE CO	LLECTED	
FACI	LITY NAME Northwestern Steel & Wire Co	mpany Pre-RCR	A L	andfill				23 M D Y 28
FOR	IEPA USE ONLY		E	BACKO	ROUND SAM	MPLE (X)		TIME COLLECTED 1 2 : 4 0 (24 hr clock) 55 H
LAB	29			JNABL 600 instruction		CT SAMPLE	59	_
DAT	E RECEIVED			TINON	OR POINT S	AMPLED BY	3	inertial pump
	42 M D Y 47			See instruction			60	OTHER (Specify)
		SAN	IPLE	FIELI	O FILTERED-	INORGANICS	S (X)	ORGANICS(X)
	SAMPLE APPEARANCE		-					
	<u> </u>							102
	COLLECTOR COMMENTS							
	103			1 2 5 5 1 2			TANK!	
	_		Г					142
	LAB COMMENTS		_					
	_		-					
REC	CORD CODE LIPICISIMIO 2			TF	RANS CODE	A (COL	UMNS 9-29	FROM ABOVE)
	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND	STOR			REMARKS	REPLICATE	OR	VALUE
	REQUIRED UNIT OF MEASURE	NUMB	ER		See Instr.		>	
Q	TEMP OF WATER (unfiltered F)	0 0 0	1	1 34	35	_	37	$\frac{5}{38} - \frac{5}{4} \cdot \frac{4}{38} \cdot \frac{1}{38} = \frac{5}{47} \cdot \frac{4}{47} \cdot \frac{1}{47} = \frac{5}{47} \cdot \frac{4}{47} = \frac{5}{47} =$
Q	SPEC COND (unfiltered umhos)	0 0 0	9	4		_	_	8 2 0
Q	pH (unfiltered units)	0 0 4	0	0	-			7 . 2 4
a	ELEV OF GW SURF (ft ref MSL)	7 1 9	9	3	-	_	_	6 1 2 . 4 6
Q	DEPTH OF WATER (ft below LS)	7 2 0	1_	9	4 -	_	- 1	1 5 . 0 6
A	BTM WELL ELEV (ft ref MSL)	7 2 0	2	0	-	_	-	
Q	DEPTH TO WATER FM MEA PT (ft)	7 2 1	0	9		_		1 5 . 0 6

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continues a fine up to \$1,000 and imprisonment up to one year. This form has been approved by the Forms Management Center. Only keypunch with Data in Column 35 of Columns 38-47.

CHEMICAL ANALYSIS FORM

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ECC	ORD CODE	LPCSM02	TRANS CODE A	
SITE	INVENTORY NUMBER	$\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{7}{18}$	MONITOR POINT NUMBER G 1	0 3 22
CO.	Whiteside		DATE COLLECTED 1 1 / 1	1 / 9 9 Y 28
	Northwestern Steel & W	/ire Company Pre-RCRA Landfill		

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE			TOR			Rem	Rep	or	Value
cis-1,2-Dichloroethylene	7 30	7	0		3 34	35	36	37	38 — — — <u>1</u> <u>7</u> ·
Vinyl Chloride	3	9	1	7	5	_	_	_	1 4 0
	_	_	_	_	_	_	_	-	
		-	_	_	_	_	_	-	
	-	_		_			_	_	
	3 9	_		_	_	_	_	_	
	-	_		_	_	_		-	
	-	_	_	-	-	=	_	-	
	-	-		_	_	_	_	_	
	-	-	_	_	=	_	_	-	
	-		-	_	_	-	-	_	
	-	_	-	_	_	-	-	-	
	-			-	_	-	_	_	
	-				_	-	-	-	
	-	_	_	_	_	-	-	_	
	-	_	_	-	_	-	-	-	
	-	-		_		-	-	-	
	-	_		_	_	-	-	-	

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS
CODE CODE
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SITE INVENTORY NUMBER

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G 1 0 4

PORT DUE DATE 01 / 15 / 00

DEPTH TO WATER FM MEA PT (ft)

1 9 5 0 5 0 0 0 0 7

FEDERAL ID NUMBER

MONITOR POINT NUMBER

REGIO	ON R COWhites	ide		DATE COL	LECTED	
ACIL	ITY NAME Northwestern Steel & Wire Cor	mpany Pre-RCRA La	ndfill			23 M D Y 28
OR II	EPA USE ONLY	В	ACKGROUND SAM	MPLE (X)		IME COLLECTED 1 1 : 5 5
AB	29	U (Se	NABLE TO COLLE	CT SAMPLE		nr clock) 55 Pt M 38
ATE	RECEIVED O Y 47		ONITOR POINT S	AMPLED BY	3	inertial pump
	42 M D Y 47		FIELD FILTERED-	INORGANICS	(X)	
	SAMPLE APPEARANCE					52
	COLLECTOR COMMENTS	1				102
						142
RECO	LAB COMMENTS		TRANS CODE		·	TROM ABOVE)
RECO		STORET NUMBER	TRANS CODE REMARKS See Instr.	A (COLU	MNS 9-29 F	PROM ABOVE) VALUE
1	DRD CODE L P C S M 0 2 FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND	0 0 0 1	REMARKS See Instr.	*	OR >	
Q T	PRD CODE L P C S M 0 2 FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	0 0 0 1	REMARKS See Instr.	*	< OR	VALUE 5 4 .
Q T	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE EMP OF WATER (unfiltered F)	0 0 0 1	REMARKS See Instr. 1 35 4 —	*	OR >	VALUE 5 4
Q T Q S	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE EMP OF WATER (unfiltered F) SPEC COND (unfiltered umhos)	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	REMARKS See Instr. 1 35 4 - 0 -	*	OR >	VALUE 5 4
Q T Q S Q P Q E	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE EMP OF WATER (unfiltered F) FPEC COND (unfiltered umhos) H (unfiltered units)	0 0 0 1 0 0 0 9 0 0 4 0	REMARKS See Instr. 1 35 4 0 - 33	*	OR >	VALUE 5 4

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CHEMICAL ANALYSIS FORM

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ECC	ORD CODE	Ļ	P	С	s	М	0	2				TRANS CODE A							
SITE	INVENTORY NUMBER	1 9	9	5	0	5	0	0	0	0	 7 18	MONITOR POINT N	UMBE	R	G 19	1	0	4 22	
co.	Whiteside				1						_	DATE COLLECTED		1	1	1	1	1	9
	Northwestern Steel & W	ire Com	pan	y Pre	e-RC	CRA	Lan	dfill		, III									20
		FACIL	ITY	NA	ME		Top					LAB 1							

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE			TOR			Rem	Rep	or >	Value
cis-1,2-Dichloroethylene	7 30	7		9	3 34	35	36	37	38 <u>1</u> <u>1</u> ·
Vinyl Chloride	3	9	1	7	5	_	-	_	8_7
	_	_	_	_	_	_	-	_	
	_	_	_	_	_	-	-	_	
	-	_	_	_	_	-	_	_	
	_	_	_	-	_	-	_	-	
	-	_	_	_	_	_	_	_	
	-	_	_	-	_	-	-	-	
	-	_	_	_	_	_	-	-	
	-	_		_	_	-	_	-	
	-	-	_	_	_	-	_	-	
	-	_	_	_	_	-	-	_	
	× -		_	_	_	-	_	_	
	-		_	_	_	-	-	_	
	_	_		_	_	-	-	-	
	-	_				-	-	-	
	1	_		_		-	3-	_	
	_	_	_	_		-	-	-	·

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS
CODE CODE
L P C S M 0 1 A

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EPORT DUE DATE	0 1	1	1 5	1	0 0
	36 M				Y 41

ITE INVENTORY NUMBER 1 9 5 0 5	5 0 0 0 0 7		MONITOR (See instructions)	POINT NUME	$\frac{G}{19} \frac{1}{H} \frac{0}{M} \frac{5}{58}$
REGIONR CO. Whites	side		DATE COL	LECTED	11 / 11 / 99
ACILITY NAME Northwestern Steel & Wire Co	mpany Pre-RCRA Land	Ifill			23 M D Y 28
OR IEPA USE ONLY	BAG	CKGROUND SAM	MPLE (X)		E COLLECTED 11 : 20
AB	UN/	ABLE TO COLLE	CT SAMPLE		ок) 55 Н м э
DATE RECEIVED	мо	NITOR POINT S	AMPLED BY	3	inertial pump
42 M D Y 47		etructions) ELD FILTERED-		60	OTHER (Specify) ORGANICS(X)
COLLECTOR COMMENTS		 			102
LAB COMMENTS					142
LAB COMMENTS		TRANS CODE	A (COLU	MNS 9-29 FRO	
150	STORET		A (COLU	MNS 9-29 FRO	
RECORD CODE L P C S M 0 2 FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND		REMARKS	8	< OR	M ABOVE)
RECORD CODE L P C S M 0 2 FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	0 0 0 1 1	REMARKS See Instr.	8	< OR >	M ABOVE) VALUE
RECORD CODE L P C S M 0 2 FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F)	0 0 0 1 1 3	REMARKS See Instr.	8	< OR >	MABOVE) VALUE 5 2 8 7 0
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F) Q SPEC COND (unfiltered umhos)	NUMBER 0 0 0 1 1 3 0 0 0 9 4	REMARKS See Instr.	8	< OR >	M ABOVE) VALUE 5 2
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F) Q SPEC COND (unfiltered umhos) Q pH (unfiltered units)	NUMBER 0 0 0 1 1 34 0 0 0 9 4 0 0 4 0 0	REMARKS See Instr.	8	< OR >	VALUE 5 2
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE Q TEMP OF WATER (unfiltered F) Q SPEC COND (unfiltered umhos) Q pH (unfiltered units) Q ELEV OF GW SURF (ft ref MSL)	NUMBER 0 0 0 1 1 3 0 0 0 9 4 0 0 4 0 0 7 1 9 9 3	REMARKS See Instr.	8	< OR >	VALUE

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CHEMICAL ANALYSIS FORM

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ECORD CODE

LPCSM02

TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{7}{18}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{0} \frac{0}{22}$

CO. Whiteside

DATE COLLECTED $\frac{1}{23} \frac{1}{M} / \frac{1}{D} \frac{1}{M} / \frac{9}{Y} \frac{9}{28}$

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE		NU	TOR JMB	ER		Rem	Rep	< or >	Value
cis-1,2-Dichloroethylene	7 30	7	0	9	3 34	35	36	37	38 2 _ 5
Vinyl Chloride	3	9	1	7	5	_	-		1_3
	-		_	_	_	_	_	-	
	-	_	_	-	_	-	-	_	
	-	_	_	-	_		_	_	
	-	_	_	_	_	_	-	_	
	-	-	_	=	=	_	_	_	
	-	-	_	_	_	_			
	+		-	-					
	+			=					
	_								
	-					_	_	_	
					_	_	_	_	
			_	_	_	1-	-	_	
				_	_		-	-	
			_	_	_	_		-	
					36	Pro.	HUE B		

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY **DIVISION OF LAND POLLUTION CONTROL** CHEMICAL ANALYSIS FORM

RECORD **TRANS** CODE L | P | C | S | M | 0 | 1 | A

Q DEPTH TO WATER FM MEA PT (ft)

CODE

Page 1 of 2

EPORT DUE DATE 0 1 / 1 5 / .	¥ 41	FEDERAL II	NUMBER		
TE INVENTORY NUMBER 1 9 5 0	5 0 0 0 0 7		MONITOF (See instructions)	POINT NU	UMBER G 1 1 1 1 58
EGION R CO. White:	Water Branch & Salar		DATE CO	LLECTED	$\frac{1}{23}\frac{1}{M}$ / $\frac{1}{D}$ / $\frac{9}{28}$
ACILITY NAME Northwestern Steel & Wire Co	ompany Pre-RCRA Lan	dfill			
OR IEPA USE ONLY	ВА	CKGROUND SA	MPLE (X)		TIME COLLECTED 1 0 : 4 0
AB		IABLE TO COLLE	ECT SAMPLE		
DATE RECEIVED		ONITOR POINT S	SAMPLED BY	A	OTHER (Specify)
	SAMPLE F	IELD FILTERED	-INORGANICS	S (X)	ORGANICS(X)
SAMPLE APPEARANCE					
					102
COLLECTOR COMMENTS					
-					142
LAB COMMENTS					
	gra ov la	TRANS CODE	IAI (COL	JMNS 9-29 F	FROM ABOVE)
		11,31100001	8 (002		
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS See Instr.	REPLICATE	OR >	VALUE
Q TEMP OF WATER (unfiltered F)	0 0 0 1 1		-	37	
Q SPEC COND (unfiltered umhos)	0 0 0 9 4	-	_	_	9 6 0
Q pH (unfiltered units)	0 0 4 0 0	2 -	_	-	7 . 1 4
Q ELEV OF GW SURF (ft ref MSL)	7 1 9 9 3	3 -	-	-	6 1 7 . 1 6
Q DEPTH OF WATER (ft below LS)	7 2 0 1 9	9 _	_	-	3 . 9
				STATE OF THE PARTY	

7 2 1 0 9

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ECORD CODE

LPCSM02

TRANS CODE A

SITE INVENTORY NUMBER

 $\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{7}{18}$

MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{22} \frac{1}{22}$

CO. Whiteside

Northwestern Steel & Wire Company Pre-RCRA Landfill

FACILITY NAME

LAB 1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND	STORET	Rem F	Rep or	Value
REQUIRED UNIT OF MEASURE	NUMBER	Keili	> or	value
cis-1,2-Dichloroethylene	7 7 0 9 3	35	36 37	38 — — — 7 · 4 — — 47
Vinyl Chloride	3 9 1 7 5			1_2
		-		
		-	- -	
		-	_ -	
		-		
		-	_ -	
		-		
		-		
		-		
	1-1	_		
		_		

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved

the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

RECORD TRANS
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EPORT DUE DATE 0 1 / 1 5 / 0 0

DEPTH TO WATER FM MEA PT (ft)

FEDERAL ID NUMBER

SITE	INVENTORY NUMBER 1 9 5 0 5	5 0 0 0 0	7		MONITOF	POINT N	NUMBER G 1 1 6
REG	ION R CO. Whites				DATE CO	LLECTED	
FAC	LITY NAME Northwestern Steel & Wire Co	mpany Pre-RCRA	Landfill				1 1 / 1 1 / 9 9
FOR	IEPA USE ONLY		BACK	GROUND SAI	MPLE (X)		TIME COLLECTED 14: 25
LAB	29		UNABL (See instruction	LE TO COLLE	ECT SAMPLE		(24 Pr clock) 55 H M 58
DAT	E RECEIVED		MONIT		AMPLED BY	3	inertial pump
		SAMP	LE FIELI	D FILTERED	INORGANICS	S (X)	ORGANICS(X)
	SAMPLE APPEARANCE						
REG	COLLECTOR COMMENTS LAB COMMENTS CORD CODE L P C S M 0 2 7		TF	RANS CODE		JMNS 9-29	FROM ABOVE)
	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		REMARKS See Instr.	REPLICATE	OR >	VALUE
Q	TEMP OF WATER (unfiltered F)	0 0 0 1	1 1	35	_	37	5 3 47
Q	SPEC COND (unfiltered umhos)	0 0 0 9		-	_		7 8 0
Q	pH (unfiltered units)	0 0 4 0	0 0	-	_	- 1	7 . 1 7
Q	ELEV OF GW SURF (ft ref MSL)	7 1 9 9	9 3	112	_	402	6 1 1 . 9 6
Q	DEPTH OF WATER (ft below LS)	7 2 0	1 9	-			1 4 . 6 4
A	BTM WELL ELEV (ft ref MSL)	7 2 0 :	2 0				

7 2 1 0 9

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RECO	ORD CODE	L P C S M O 2	TRANS CODE A						
SITE	INVENTORY NUMBER	$\frac{1}{9}$ $\frac{9}{5}$ $\frac{5}{0}$ $\frac{0}{5}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{18}$	MONITOR POINT NUM	MBER	G 19	1	1	6 22	
CO.	Whiteside		DATE COLLECTED	1 1 m	1	1 0	1_	1	9
	Northwestern Steel & W	ire Company Pre-RCRA Landfill	IAR 1						

LAB MEASUREMENTS				<	
CONSTITUENT DESCRIPTION AND	STORET	Rem	Rep	or	Value
REQUIRED UNIT OF MEASURE	NUMBER			>	
cis-1,2-Dichloroethylene	$\frac{7}{30} \frac{7}{0} \frac{9}{0} \frac{3}{34}$	35	36	37	38 — — — <u>6 5</u> . — — —
Vinyl Chloride	3 9 1 7 5	_	_	-	2_8
		_	_	-	
		_	-	-	
		_	-	-	
		-	_	-	
		_	-	-	
		_	-	-	/
		-	-	-	
		-	-	-	
		-	-	-	
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM

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LLPCSM011 A

A BTM WELL ELEV (ft ref MSL)

Q DEPTH TO WATER FM MEA PT (ft)

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EPORT DUE DATE 01 / 15 / 00

FEDERAL ID NUMBER

SITE	EINVENTORY NUMBER 1 9 5 0	5 0 0 0 0	7		MONITOF	R POINT N	UMB	ER		G 1	1	7	
REG	SION R CO. White	eside				LLECTED			1	/ _	1 1		
FAC	ILITY NAME Northwestern Steel & Wire Co	ompany Pre-RCRA	Landfill					23	м		D		Y 28
FOR	RIEPA USE ONLY		BACKG	ROUND SA	MPLE (X)			COLL	ECT	ED	_1	4	: _50
LAB	29		UNABL (See instruction	E TO COLLE	ECT SAMPLE		(24 hr clo	:k)			55	н	M 58
DAT	TE RECEIVED		MONIT		SAMPLED BY	3	_		inerti	ial pur	np other (sp	ecify)	
		SAMP	LE FIELD	FILTERED-	INORGANIC	s (x)	61		ORC	SANIC	CS(X)		62
	SAMPLE APPEARANCE						-						
	COLLECTOR COMMENTS						_	102					
	LAB COMMENTS						- -	142	_			_	
RE	CORD CODE LPCSM02		 TR	ANS CODE	A (COL	 UMNS 9-29	- FROM	— — M ABOV				199	
	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		REMARKS See Instr.	REPLICATE	< OR >				V	ALUE		
Q	TEMP OF WATER (unfiltered F)	0 0 0 1	1 1	35		37	38		5	5	• _	_	
	SPEC COND (unfiltered umhos)	0 0 0 9	9 4	-	_	- 1	-	_ 8	3	0			
Q				-			1			-		_	
	pH (unfiltered units)	0 0 4 0	0 0	-		_	-		_	7	. 2	3	
Q		0 0 4 0 7 1 9 9		-	_	<u>-</u>	-	_ 6	1	<u>7</u>		3 0	

7 2 1 0 9

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ECORD CODE	LPCSM02	TRANS CODE A
SITE INVENTORY NUMBER	$\frac{1}{9} \frac{9}{5} \frac{5}{0} \frac{0}{5} \frac{0}{0} \frac{0}{0} \frac{0}{0} \frac{7}{18}$	MONITOR POINT NUMBER $\frac{G}{19} \frac{1}{-1} \frac{1}{22}$
CO. Whiteside		DATE COLLECTED 1 1 / 1 1 / 9 9 7 28
Northwestern Steel & V	/ire Company Pre-RCRA Landfill FACILITY NAME	LAB1

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE			OR			Rem	Rep	< or >	Value
cis-1,2-Dichloroethylene	7 30		0	9	3	35	36	37	38 3 8
Vinyl Chloride	3	9	1	7	5	_		_	8_9
	-	_	_	_	_	_	-	_	
	-	_	_	_	_	_	-	-	
	-	=	_	_		-	4-0	-	
	-	_	_	_	_	_	-	-	
	-	_	_	_	_	-	-	-	
	-	_	_	_	-	_	-	_	
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PDC Laboratories, Inc.

P.O. Box 9071 • Peoria, IL 61612-9071 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Report Cover Page

Northwestern Steel & Wire Co. 121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Login No. 9911989

This report includes information regarding the following described samples as received by the laboratory and is only valid for the parameters tested. This report contains 9 results page(s) not including the cover page(s).

11	ins report contains	9 results page	e(s) not including the	e cover page (s).
Sample No.	Client ID	Site	Locator	Tests/Services
9911989-1	NWSW GW	PRE-RCRA LF	MW 3	Volatiles, GC/MS Field Sampling Services
9911989-2	NWSW GW	PRE-RCRA LF	MW 4	
				Volatiles, GC/MS
9911989-3	NWSW GW	PRE-RCRA LF	MW 5	
				Volatiles, GC/MS
9911989-4	NWSW GW	PRE-RCRA LF	MW 11	
				Volatiles, GC/MS
9911989-5	NWSW GW	PRE-RCRA LF	MW 16	TOTALLICE, CC/ID
	Zc.ii dii	THE ROLL DE	PAR 10	Volatiles, GC/MS
9911989-6	NWSW GW	PRE-RCRA LF	MW 17	VOIGCITCS, GC/ND
	MISH GN	FRE-RCRA DE	PW 17	Volatiles, GC/MS
9911989-7	NWSW GW	PRE-RCRA LF	MW 17 ETELD DUD	volaciles, GC/MS
	NWSW GW	PRE-RCRA LF	MW 17 FIELD DUP	17-1
				Volatiles, GC/MS
9911989-8	TRIP BLANK	PRE-RCRA LF	TRIP BLANK	
				Volatiles, GC/MS
9911989-9	EQUIPMENT BLANK	PRE-RCRA LF	EQUIPMENT BLANK	
				Volatiles, GC/MS

Certified by: Mark A. Williams, Project Manager

PDC Laboratories participates in the following laboratory accreditation/certification and proficiency programs. Endorsement by the Federal or State Government or their agencies is not implied.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100230

State of Illinois Bacteriological Analysis in Drinking Water Certified Lab Registry No. 17533

State of Arkansas Certified Wastewater and Hazardous Waste Lab

State of Indiana Certified Drinking Water Lab No. C-IL-04

State of Iowa Certified Wastewater Lab No. 240

American Industrial Hygiene Association Bulk/Air Asbestos Proficiency Program Lab ID No. 101206

State of North Dakota Wastewater and Hazardous Waste CertifiedLab No. R-094

State of Wisconsin Certified Wastewater and Hazardous Waste Lab ID No. 998294430

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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

Sterling, IL 61081

PO #:

Attn: Mr. Dave Long

Login No. 9911989

Sample No: 9911989-1 Client ID: NWSW GW Site: PRE-RCRA LF

Locator: MW 3

Collect Date: 11-NOV-99 12:40

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
Vinyl chloride	140	ug/l	22-Nov-99 12:00	PSB
cis-1,2-Dichloroethene	17.	ug/l	22-Nov-99 12:00	PSB



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Sterling, IL 61081

Attn: Mr. Dave Long

Login No. 9911989

Sample No: 9911989-2 Client ID: NWSW GW Site: PRE-RCRA LF

Locator: MW 4

Collect Date: 11-NOV-99 11:55

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
Vinyl chloride	87.	ug/l	22-Nov-99 12:00	PSB
cis-1,2-Dichloroethene	11.	ug/l	22-Nov-99 12:00	PSB



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Sterling, IL 61081

Attn: Mr. Dave Long Login No. 9911989

Sample No: 9911989-3 Client ID: NWSW GW Site: PRE-RCRA LF

Locator: MW 5

Collect Date: 11-NOV-99 11:20

Parameter	Result	Units	Date	Ву
SW-846 Method 8260B				
Vinyl chloride	13.	ug/l	22-Nov-99 12:00	PSB
cis-1,2-Dichloroethene	25.	ug/l	22-Nov-99 12:00	PSB



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Sterling, IL 61081

Login No. 9911989

Attn: Mr. Dave Long

Sample No: 9911989-4 Client ID: NWSW GW

Site: PRE-RCRA LF Locator: MW 11

Collect Date: 11-NOV-99 10:40

W-846 Method 8260B				
Vinyl chloride	12.	ug/l	22-Nov-99 12:00	PSB
cis-1,2-Dichloroethene	7.4	ug/l	22-Nov-99 12:00	PSB



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Login No. 9911989

Sample No: 9911989-5 Client ID: NWSW GW Site: PRE-RCRA LF

Locator: MW 16

Collect Date: 11-NOV-99 14:25

Parameter	Result	Units	Date By
SW-846 Method 8260B			
Vinyl chloride	28.	ug/l	22-Nov-99 12:00 PSB
cis-1,2-Dichloroethene	65.	ug/l	22-Nov-99 12:00 PSB



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Sterling, IL 61081

Login No. 9911989

Attn: Mr. Dave Long

Sample No: 9911989-Client ID: NWSW GW

9911989-6

Site: PRE-RCRA LF

Locator: MW 17

Collect Date: 11-NOV-99 14:50

Parameter	Result	Units	Date By
SW-846 Method 8260B			
Vinyl chloride	89.	ug/l	22-Nov-99 12:00 PSB
cis-1,2-Dichloroethene	38.	ug/l	22-Nov-99 12:00 PSB



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Laboratory Results

Northwestern Steel & Wire Co. 121 Wallace Street

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Sterling, IL 61081

Login No. 9911989

Attn: Mr. Dave Long

Sample No: 9911989-7 Client ID: NWSW GW

Site: PRE-RCRA LF Locator: MW 17 FIELD DUP

Collect Date: 11-NOV-99

Fatametel	Result	(I) obsess	Date By
SW-846 Method 8260B			
Vinyl chloride	84.	ug/l	22-Nov-99 12:00 PSB
cis-1,2-Dichloroethene	35.	ug/l	22-Nov-99 12:00 PSB



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Login No. 9911989

Sample No: 9911989-8 Client ID: TRIP BLANK Site: PRE-RCRA LF Locator: TRIP BLANK

Collect Date: 11-NOV-99

Parameter		Result	Units	Date	Ву
SW-846 Method 8260B					
Vinyl chloride	<	2.0	ug/l	22-Nov-99 12:00	PSB
cis-1,2-Dichloroethene	<	5.0	ug/l	22-Nov-99 12:00	PSB



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Laboratory Results

Northwestern Steel & Wire Co.

121 Wallace Street

Sterling, IL 61081

Attn: Mr. Dave Long

Date Received: 11-Nov-99 Date Reported: 07-Jan-00

PO #:

Login No. 9911989

Sample No: 9911989-9
Client ID: EQUIPMENT BLANK
Site: PRE-RCRA LF
LOCATOR: EQUIPMENT BLANK

Collect Date: 11-NOV-99

Parameter		Result	Units	Date By
SW-846 Method 8260B				
Vinyl chloride	<	2.0	ug/l	22-Nov-99 12:00 PSB
cis-1,2-Dichloroethene	<	5.0	ug/l	22-Nov-99 12:00 PSB

PHONE # 309-692-9688 FAX # 309-692-9689

CLIENT NWSW- Pre-RCFA	PROJECT N	UMBER	P.O. NUME			SHIPPED	3	\	LYSIS REQL	ESTED	(FOR LAB USE ONLY) 4 GG11GCG
ADDRESS	PHONE NU	MBER	FAX NUME	BER	DATE S	SHIPPED	0	ach. la			LOGIN#
CITY STATE ZIP CONTACT PERSON Mr. Dove Long	SAMPLER (PLEASE PRINT PARCE) SAMPLER'S SIGNATURE M and	Willia	Mar		MATRIX TO WW-WASTEV DW-DRINKIN GW-GROUND WWSL-SLUD NAS-SOLID OTHER:	WATER G WATER D WATER	11 Chloride	12- dichlora			TEMPLATE:PROJ. MGR.:
2 SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	SAMPLE GRAB	TYPE COMP	MATRIX TYPE	TOTAL # OF CONT	Vin	cis			REMARKS
MW-3	11-11-99	12:40					1	1			
MW.5	,,	11:55					1	1			
MW.5	11	11:20					1	/			
MU · 11	٠,	10:40					1	/			
MW-16	('	14:25					1	/			
MW-17	· ·	14:50					1				
MW-17 FILL DUP	tr						1	/			
MW.17 Fill DUP TVIP Blank Equipment Blank	1,						/	1			
Egymmt Blank	u						1	1			
		1 445									
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) FAX FAX # IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERE		PHONE			6	this area you	u reques tempera u allow	st that t ture is the lab	he lab notify outside of the	you, before pro range of 0.1-6	t at the lab. By initialing sceeding with analysis, if 6.0°C. By not initialing ssting regardless of the
7 RELINQUISHED BY: (SIGNATURE)	28	D BY: (SIGNATU	JRE)				DAT	E	(8)	COMMENTS:	(FOR LAB USE ONLY)
							TIM	E	0		
RELINQUISHED BY: (SIGNATURE) TIME	RECEIVE	DAT LAB BY: (S	SIGNATURE	i)			DAT /// TIM	18	CHILL PRO SAMPLE(S) BOTTLES I BOTTLES I	CESS STARTE RECEIVED OF RECEIVED IN G FILLED WITH A	UPON RECEIPT D PRIOR TO RECEIPT N ICE V OR N Y OR N Y OR N DEQUATE VOLUME THIN HOLD TIME(S) Y OR N

Pre- RCRA LF

11

Til.

NORTHWESTERN STEEL AND WIRE COMPANY Sterling, Illinois

GROUND WATER FIELD SURVEY FORM

Federal I. D. ILD00526315 Ill Site 1950500007

	I.D. MW-3	Casing	Vol. (gals) 4.4
Purge	Date 11-11-99	Vol. Pu	irged (gals) 13.3
Purge	Time 12:18	Sa	ample Method WeTerra
Sample	Date 11-11-99		
Sample	Time 12:40		Seal No.
Elev	ation 15.06	Total	Well Depth 42.28
Water	Level		Stick-Up
GW Elev	ation	Sample	Temp. (°C) /2,2
Sample Appea	rance		
	ain Sample (X)_		roportions
pH_Z Sp. Cond (umhos)		- Frocedure/1	roportions
	7.24 820		
pH_Z Sp. Cond (umhos)	9.24 820 -	Cand	Temp
pH_Z Sp. Cond_ (umhos)	7.24 820		
pH_Z Sp. Cond (umhos)	9.24 820 -	Cand	Temp
pH_Z Sp. Cond (umhos)	1.24 820 - 9H 7.64 7.22	Cand 170	Temp 12.4
pH_Z Sp. Cond_ (umhos) File of Comments_ In His I Z	7.24 820 PH 7.64 7.22 7.22	Cand 170 755 810	Temp 12.4 12.2 12.2
pH_Z Sp. Cond (umhos) Filed Comments In Hiel	1.24 820 - 9H 7.64 7.22	Cand 170 755	Temp 12.4 12.2

Sampler Name (print) Mork Williams Signature Mak Williams

GROUND WATER FIELD SURVEY FORM

111

	int I.D. MW - 4	Casing	Vol. (gals) 4.6					
Pur	ge Date 11-11-99	Vol. Pr	urged (gals) 13. 8					
Pur	ge Time 11:36	S	ample Method WcTerra					
Samı	ple Date 11-11-99							
Samp	ole Time 11:55		Seal No.					
E1	evation 13.51	Tota	l Well Depth 41.80					
	er Level		Stick-Up					
GW E	levation	Sample	Temp. (°C) 12.(
Veather Co	nditions							
Sample Ap	pearance Clean							
Sampler C	comments							
Teable Me (Obtain Gamala (7	Reason						
	Obtain Sample (X nposited (X)		Proportions					
ample Con	Thostean (V)							
pH	7.29	The second secon						
Sp. Cond (umhos)	880							
Sp. Cond (umhos)	880	Cond	Temp					
Sp. Cond (umhos) Fill Lab Comments	P IL							
Sp. Cond (umhos) Fill Lab Comments	P K	790	(Z. 3					
Sp. Cond (umhos) Fill Cab Comments In:1:21	7.25 7.27	750 870	(Z. 3 (Z.3					
Sp. Cond (umhos) Fill Lab Comments	7.25 7.27 7.27	790 870 880	12.3 12.3 12.2					
Sp. Cond (umhos) Fill (Lab) Comments In:1:21	7.25 7.27	750 870	(Z. 3 (Z.3					
Sp. Cond (umhos) Fill Lab Comments In:1:21	7.25 7.27 7.27	790 870 880	12.3 12.3 12.2					
Sp. Cond (umhos) Fill (Lab) Comments In:1:21 1 2	7.25 7.27 7.27 7.27 7.29	790 870 880 880	12.3 12.3 12.2 i2.1					
Sp. Cond (umhos) Filld Comments In:1:21 I Comments I Comments	7.25 7.27 7.27 7.27 7.29	790 870 880 880	12.3 12.3 12.2					
Sp. Cond (umhos) Fill (Lab) Comments In:1:2/ I Corporate	7.25 7.27 7.27 7.29 hat sampling proprotocols.	790 870 880 880	12.3 12.3 12.2 i2.1					

GROUND WATER FIELD SURVEY FORM

Purge	Date 11-11-99 Time 10:55		rged (gals) 17.5
Purge	Time_10.55	Co	
Sample	11 11 00	5a.	mple Method WeTerra
-	Date 11-11-99		
Sample	Time 11:26		Seal No.
Elev	ation_12.52	Total	Well Depth 48,40
Water	Level		Stick-Up
GW Elev	ation	Sample	Temp. (°C) //. & C
Weather Cond	itions		
	rance ments		
Unable To Obt	ain Sample (X)_	Reason	
Sample Compo	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Procedure/Pr	roportions
pH Sp. Cond (umhos)	7.37 870		
Field Lab			
Comments	PH	cond	Temp
Initial	7.86	140	11.9
1	7.28	7/0	11.6
2	7.31	810	11.5
)	7.33	870	11.2
7:7.03	100= - 980		E 24
	t sampling proced	dures were in acc	cordance with EPA and

GROUND WATER FIELD SURVEY FORM

Dumpio a oraco	I.D. MW-11	Casing	Vol. (gals)_	1. 7	
Purge	Date 11-11-99	Vol. Pu	rged (gals)_	5.1	
Purge	Time 10:25	Sa	mple Method	60,1000	Tefler
Sample	Date 11-11-99				
Sample	Time /0:40		Seal No		
Eleva	ation & c.		Well Depth_	16.55	
	Level		Stick-Up_ Temp. (°C)_	. 0 .	
GW Elev	ation	Sample	Temp. (°C)_	12.9 6	
Weather Cond	itions Cloudy	· (6°)			
Sample Appea	rance Turb.d-	oder-			
Sampler Com	ments				
Unable To Obta	ain Sample (X)_	Reason			
Sample Compo	sited (X)	Procedure/P	roportions		
	Charles and the second second				
	7 111				
	7.14				
Sp. Cond	7.14				
					=
Sp. Cond					
Sp. Cond(umhos)					
Sp. Cond(umhos)	560	Cand	Temp Elm		
Sp. Cond(umhos) Eield bab Comments	PH	Cond 1120	Elev.		
Sp. Cond(umhos)	560	Cond 1120 1070			
Sp. Cond(umhos) Eield bab Comments	9H 4.94	1120	Elev.		
Sp. Cond(umhos) Eild hab Comments	94 4.94 7.04	1120	11.8° (
Sp. Cond(umhos) Sield Lab Comments	9H 4.94 7.04 7.10	1120 1070 990 760	11.8° c 12.3° c 12.6° c 12.9° c		
Sp. Cond(umhos) Field Lab Comments	914 4.94 7.04 7.10 7.14 blank filled	1120 1070 990 760	11.8° c 12.3° c 12.6° c 12.9° c this well		
Sp. Cond(umhos) Field Lab Comments	914 4.94 7.04 7.10 7.14 blank filled	1120 1070 990 760 before furza	11.8° c 12.3° c 12.6° c 12.9° c this well		
Sp. Cond (umhos) Field hab Comments Int. 1 2 3 Equipment	9H 4.94 7.04 7.10 7.14 blank f.1111	1120 1070 990 760 before furza 11 108	12.3° c 12.6° c 12.7° c this well		
Sp. Cond (umhos) Field hab Comments Intial 2 Figureant	914 4.94 7.04 7.10 7.14 blank f.1111	1120 1070 990 760 before furza 11 108	12.3° c 12.6° c 12.7° c this well		
Sp. Cond (umhos) Field hab Comments In:t: 1 2 Figure Print I certify that corporate prints	914 4.94 7.04 7.10 7.14 blank f.1111	1120 1070 990 760 before fury m	11.8° (12.3° C 12.6° C 12.7° C this well	n EPA an	

GROUND WATER FIELD SURVEY FORM

The State of		D.	
N AV		#	95
1	7.17	780	11.9
2	7.20	766	12.1
Int:01	723	730	11. 9
Comments	14	Cond	Temp
Fint			
pH Sp. Cond (umhos)	7.17		
	ain Sample (X)sited (X)	20000012	ortions
Sample Appea	rance Clear		
Water	ation 14.621 Level ation		ell Depth 48.37 Stick-Up
	121		
Sample	Time 14: 25		Seal No.
Sample	Time 14:05 Date 11-11-99	Sampl	e Method WeTerre
rurge	Date 11-11-99	Vol. Purge	d (gals) 16.5

GROUND WATER FIELD SURVEY FORM

Dundo	11 . 4.	Casing	Vol. (gals) 3.4
	Date //-//- 99		urged (gals) 10.2
Purge	Time 14:37 Date 11-11-95	8	ample Method Waterta
Sample	Time 14:50		Seal No.
Sample	Time - 777	The Lates of the	Seal No.
Eleva	ation 13.37	Tota	l Well Depth 34, 27
Water	Level		Stick-Up
GW Eleva	ation	Sample	Stick-Up
Veather Condi	itions		
Sample Appea	rance - /		
Sampler Com	ments		
	1		
	ain Sample (X)_sited (X)	Reason/ Procedure/I	Proportions
sample compos	sited (A)		
_ 7	7 7 2		
pH	. 23		
Sp. Cond	330		
Sp. Cond(umhos)	330		
Sp. Cond(umhos)	330		
Sp. Cond(umhos)	830		
Sp. Cond(umhos)	83C P/4	Conl	Temp
Sp. Cond	93c P/4 7.20 -	140	12.6
Sp. Cond (umhos) Seld tab Comments Dr. Liel	93c P/4 7.20 - 7.21	74c 82c	12.6 12.5
Sp. Cond (umhos) eid Lab Comments Dr. Liel	914 7.20 - 7.21 7.23	74c 82c 830	12.6 12.5
Sp. Cond (umhos) Seld Lab Comments Dr. Liel	93c P/4 7.20 - 7.21	74c 82c	12.6 12.5
Sp. Cond (umhos) Sp. Cond (umhos) Sp. Cond (umhos) Sp. Cond (umhos)	914 7.20 - 7.21 7.23	74c 82c 830	12.5
Sp. Cond (umhos) E-eld Lab Comments Dr. Liel	914 7.20 - 7.21 7.23	74c 82c 830	12.6 12.5
Sp. Cond (umhos) Sp. Cond (umhos) Sp. Cond (umhos) Sp. Cond (umhos)	914 7.20 - 7.21 7.23	74c 82c 830	12.5
Sp. Cond (umhos) Sp. Cond (umhos) Sp. Cond (umhos) Sp. Liel (umhos) Sp. Liel (umhos)	914 7.20 - 7.21 7.23 7.23	74c 82c 830 83c	12.5
Sp. Cond (umhos) Sp. Cond (umhos) Sp. Cond (umhos) Sp. Lield Lab Comments (umhos) 7: 7: 7: e2	9/4 7.20 7.21 7.23 7.23 7.23	74c 82c 830 83c	12.5 12.5 12.5 12.5